

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: April 28, 2004, 10:12:24 ; Search time 54 Seconds  
(without alignments)  
4871.350 Million cell updates/sec

Title: US-09-671-687A-3  
Perfect score: 5034  
Sequence: 1 MSSGLWSQEKVTSYWEERI.....RLLCDAYMCMYQSTMSLYK 949

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1138120 seqs, 277189581 residues

Total number of hits satisfying chosen parameters: 1138120

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/1/pubpaa/FCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US06\_PUBCOMB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/PTUS\_PUBCOMB.pep:\*
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- 8: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
- 9: /cgn2\_6/ptodata/1/pubpaa/US09A\_PUBCOMB.pep:\*
- 10: /cgn2\_6/ptodata/1/pubpaa/US09B\_PUBCOMB.pep:\*
- 11: /cgn2\_6/ptodata/1/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/1/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4971.5	98.8	956	10	US-09-851-673-4
2	1275	25.3	261	15	US-10-264-237-1609
3	1173	23.3	238	15	US-10-264-237-1610
4	597	11.9	113	9	US-09-864-761-34675
5	146	2.9	354	12	US-10-087-192-120
6	143	2.8	547	15	US-10-108-260A-2751
7	143	2.8	547	16	US-10-275-595A-13
8	135.5	2.7	306	15	US-10-104-047-2990
9	135.5	2.7	721	11	US-09-764-875-857
10	135.5	2.7	2273	12	US-10-282-122A-66115
11	134.5	2.7	721	9	US-09-764-868-731
12	134.5	2.7	721	11	US-09-764-875-1140
13	134	2.7	307	14	US-10-106-698-5606
14	132.5	2.6	439	12	US-10-087-192-117
15	130	2.6	717	15	US-10-369-493-22287

16	129.5	2.6	3298	12	US-10-210-172-50	Sequence 50, Appl
17	129.5	2.6	3298	14	US-10-160-758-16	Sequence 16, Appl
18	129.5	2.6	3298	14	US-10-174-677-8	Sequence 8, Appl
19	129.5	2.6	3298	15	US-10-120-801-51	Sequence 51, Appl
20	127.5	2.5	3217	16	US-10-311-623-8	Sequence 8, Appl
21	124	2.5	1474	14	US-10-225-567A-522	Sequence 522, App
22	124	2.5	1474	15	US-10-292-798-914	Sequence 914, App
23	122.5	2.4	803	14	US-10-349-436-33	Sequence 33, Appl
24	122.5	2.4	892	12	US-10-276-774-1800	Sequence 1800, Ap
25	122.5	2.4	1953	15	US-10-369-493-1945	Sequence 1945, Ap
26	120.5	2.4	867	12	US-10-282-122A-57767	Sequence 57767, A
27	120.5	2.4	1033	9	US-09-888-615-75	Sequence 75, Appl
28	120.5	2.4	1109	12	US-10-425-114-72939	Sequence 72939, A
29	120.5	2.4	1471	10	US-09-998-027-4	Sequence 4, Appl
30	120.5	2.4	1471	14	US-10-165-099-4	Sequence 2, Appl
31	120	2.4	485	9	US-09-801-275-2	Sequence 59, Appl
32	120	2.4	485	14	US-10-170-789-59	Sequence 21881, A
33	120	2.4	499	15	US-10-369-493-21881	Sequence 6, Appl
34	120	2.4	982	12	US-10-634-574-6	Sequence 117, App
35	120	2.4	982	15	US-10-341-434-117	Sequence 6, Appl
36	119.5	2.4	1451	10	US-09-998-027-1	Sequence 1, Appl
37	119.5	2.4	1451	14	US-10-165-099-1	Sequence 1, Appl
38	119	2.4	6304	14	US-10-147-026-16	Sequence 16, Appl
39	118.5	2.4	1471	8	US-08-811-519A-1	Sequence 1, Appl
40	118.5	2.4	1515	14	US-10-240-154-8	Sequence 8, Appl
41	118	2.3	267	9	US-09-350-874-57	Sequence 57, Appl
42	118	2.3	267	14	US-10-106-989-57	Sequence 57, Appl
43	116	2.3	565	9	US-09-766-954A-2	Sequence 2, Appl
44	116	2.3	2665	9	US-09-864-761-34248	Sequence 34248, A
45	116	2.3	3664	12	US-10-263-929-143	Sequence 143, App

ALIGNMENTS

RESULT 1

US-09-851-673-4  
; Sequence 4, Application US/09851673  
; Publication No. US20030165985A1  
; GENERAL INFORMATION:  
; APPLICANT: Derry, Jonathan  
; APPLICANT: Fanslow, William  
; APPLICANT: Dougall, William  
; TITLE OF INVENTION: SCREENING ASSAYS FOR AGONISTS OR ANTAGONISTS OF CD40 SIGNALING  
; FILE REFERENCE: 3198  
; CURRENT APPLICATION NUMBER: US/09/851, 673  
; CURRENT FILING DATE: 2001-05-08  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 4  
; LENGTH: 956  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-851-673-4

Query Match	98.8%	Score	4971.5	DB	10	Length	956
Best Local Similarity	99.2%	Pred. No.	0				
Matches	948	Conservative	0	Mismatches	1	Indels	7
						Gaps	5
Qy	1	MSSGLWSQEKVTSYWEERI	FYLLQEC	SVTDKQTKLLKVPKSGIQYI	QDRSVGH	SR	60
Db	1	MSSGLWSQEKVTSYWEERI	FYLLQEC	SVTDKQTKLLKVPKSGIQYI	QDRSVGH	SR	60
Qy	61	PSAKKKQIGIKILEQPHAVL	FVDE	-DWEINEKFTTELLAITNCEERFSLFKNR	LS	119	
Db	61	PSAKKKQIGIKILEQPHAVL	FVDEK	VDKVEINEKFTTELLAITNCEERFSLFKNR	LS	120	
Qy	120	KGLQIDVCPVKQVRS	GEEKPPGVVR	FRGPGLLAERTVSGIPGV	VELLEGR	CGGT	179
Db	121	KGLQIDVCPVKQVRS	GEEKPPGVVR	FRGPGLLAERTVSGIPGV	VELLEGR	CGGT	180
Qy	180	YQKQLFCDEDCG	-FVALDKLELIEDD	DTALESYAGP	DTMQVLP	PLEINS	238

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Db 181 YGKQLFOCDEDCGVFVALDKLELIEDDDTALESYAGPDMQVLPLEINRSVSLKY 240
QY 239 GETIESGTVIFCDVLPKGESLGYFVGVDMDNPIGNWGRFDGV-LCSFACVESTILLHIN 297
Db 241 GETIESGTVIFCDVLPKGESLGYFVGVDMDNPIGNWGRFDGV-LCSFACVESTILLHIN 300
QY 298 DIIP---RSVTOERRPPKLAFMRSRGVKGSSSHNKPATGSTDPGMR-RSELFTYTLNG 353
Db 301 DIIPALSESVTQERRPPKLAFMRSRGVKGSSSHNKPATGSTDPGMRNRSELFTYTLNG 360
QY 354 SSVDSQPSKSNWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNNFHSPL 413
Db 361 SSVDSQPSKSNWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNNFHSPL 420
QY 414 FSLTKMPNTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPNGNSHGLEVGSIAEVE 473
Db 421 FSLTKMPNTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPNGNSHGLEVGSIAEVE 480
QY 474 NPPFYGVIRWICQPPGLNEVLAGELEDECACTDGTFRGTRYFTCAKALFKVLSKCR 533
Db 481 NPPFYGVIRWICQPPGLNEVLAGELEDECACTDGTFRGTRYFTCAKALFKVLSKCR 540
QY 534 PDSRFASLOPVSNQIERCNSLAFGGYLSVVEENTPPPKMEKEGLEIMIGKKGIQGHYNS 593
Db 541 PDSRFASLOPVSNQIERCNSLAFGGYLSVVEENTPPPKMEKEGLEIMIGKKGIQGHYNS 600
QY 594 CYLDSITLFCFLAFSSVLDTVLLRPKEKNDVEYVSETQELLRTIEIVNPLRIYGVVCAKTM 653
Db 601 CYLDSITLFCFLAFSSVLDTVLLRPKEKNDVEYVSETQELLRTIEIVNPLRIYGVVCAKTM 660
QY 654 KLRKILEKVEAASGFTSEBKDPPEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFM 713
Db 661 KLRKILEKVEAASGFTSEBKDPPEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFM 720
QY 714 KNEKVGVPVPTIQOLLEWSFINSNLPKFAEAPSCILIIQMPRFGKDFKFKIFPSPLELNITD 773
Db 721 KNEKVGVPVPTIQOLLEWSFINSNLPKFAEAPSCILIIQMPRFGKDFKFKIFPSPLELNITD 780
QY 774 LEDTPROCRICGGLAMVRECYDDPDISAGKIKQFCCTNTQVHLHPKRLNHNKYNPVS 833
Db 781 LEDTPROCRICGGLAMVRECYDDPDISAGKIKQFCCTNTQVHLHPKRLNHNKYNPVS 840
QY 834 PKDLDPDWRHGCIPCONNELFAVLCIETSHYVAFVKYKQDSAWLFFDSDMADRGQNG 893
Db 841 PKDLDPDWRHGCIPCONNELFAVLCIETSHYVAFVKYKQDSAWLFFDSDMADRGQNG 900
QY 894 FNIPOVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPVMSLYK 949
Db 901 FNIPOVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPVMSLYK 956

RESULT 2
US-10-264-237-1609
; Sequence 1609, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; PRIOR FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1609
; LENGTH: 261
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (38)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (187)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; NAME/KEY: MISC FEATURE
; LOCATION: (227)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-1610

Query Match 23.3%; Score 1173; DB 15; Length 238;
Best Local Similarity 98.2%; Pred. No. 1.7e-94;

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; LOCATION: (209)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (218)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (227)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (257)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-1609

Query Match 25.3%; Score 1275; DB 15; Length 261;
Best Local Similarity 98.7%; Pred. No. 2e-103; 3; Indels 0; Gaps 0;
Matches 234; Conservative 0; Mismatches 3;

QY 653 MKLRKILEKVEAASGFTSEBKDPPEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFM 712
Db 1 MKLRKILEKVEAASGFTSEBKDPPEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFM 60
QY 713 EKNEKVGVPVPTIQOLLEWSFINSNLPKFAEAPSCILIIQMPRFGKDFKFKIFPSPLELNITD 772
Db 61 EKNEKVGVPVPTIQOLLEWSFINSNLPKFAEAPSCILIIQMPRFGKDFKFKIFPSPLELNITD 120
QY 773 LEDTPROCRICGGLAMVRECYDDPDISAGKIKQFCCTNTQVHLHPKRLNHNKYNPVS 832
Db 121 LEDTPROCRICGGLAMVRECYDDPDISAGKIKQFCCTNTQVHLHPKRLNHNKYNPVS 180
QY 833 LPKDLDPDWRHGCIPCONNELFAVLCIETSHYVAFVKYKQDSAWLFFDSDMADRG 889
Db 181 LPKDLDPDWRHGCIPCONNELFAVLCIETSHYVAFVKYKQDSAWLFFDSDMADRG 237

RESULT 3
US-10-264-237-1610
; Sequence 1610, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1610
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (38)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (187)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; NAME/KEY: MISC FEATURE
; LOCATION: (227)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-1610

Query Match 23.3%; Score 1173; DB 15; Length 238;
Best Local Similarity 98.2%; Pred. No. 1.7e-94;

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Matches 224; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Qy 419 MPNTNGSIGHSPLSAQSVMEEINTAPVQSPPLAMPNGSHGLEVCSLAEVKENPPFY 478
Db 1 MPNTNGSIGHSPLSAQSVMEEINTAPVQSPPLAMPNGSHGLEVCSLAEVKENPPFY 60
Qy 479 GVIRWIGOPPLNEVLAGELEDEACAGCTDGTFRGTRYFTCALKKALFKVLSKCRPDGRF 538
Db 61 GVIRWIGOPPLNEVLAGELEDEACAGCTDGTFRGTRYFTCALKKALFKVLSKCRPDGRF 120
Qy 539 ASLPQVSNQIERCNSLAFGGYSLSEVEENTPPKMEKEGLIMIGKKGIQGHYNSCYLDS 598
Db 121 ASLPQVSNQIERCNSLAFGGYSLSEVEENTPPKMEKEGLIMIGKKGIQGHYNSCYLDS 180
Qy 599 TLFCLFAPSSVLDTVLLRPKKNVVEYYSQELLRTBEIVNPLRIYGY 646
Db 181 TLFCLFAPSSVLDTVLLRPKKNVVEYYSQELLRTBEIVNPLRIYGY 228

RESULT 4
US-09-864-761-34675
; Sequence 34675, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Acomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 34675
; LENGTH: 113

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC007728.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.98
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.92
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 0.89
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.4
; OTHER INFORMATION: EST HUMAN HIT: A1130924.1, EVALUE 5.00e-62
; OTHER INFORMATION: SWISSPROT HIT: Q03164, EVALUE 8.90e-01
US-09-864-761-34675

Query Match 11.9%; Score 597; DB 9; Length 113;
Best Local Similarity 100.0%; Pred. No. 2.6e-44;
Matches 113; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 387 DFDSSPPLQPPVNSLTENRFLPSLTAKMPNTNGSIGHSPLSAQSVMEEINTAP 446
Db 1 DFDSSPPLQPPVNSLTENRFLPSLTAKMPNTNGSIGHSPLSAQSVMEEINTAP 60
Qy 447 VQSSPPLAMPNGSHGLEVCSLAEVKENPPFYGVIRWIGOPPLNEVLAGELE 499
Db 61 VQSSPPLAMPNGSHGLEVCSLAEVKENPPFYGVIRWIGOPPLNEVLAGELE 113

RESULT 5
US-10-087-192-120
; Sequence 120, Application US/10087192
; Publication No. US20020182586A1
; GENERAL INFORMATION:
; APPLICANT: Morris, David W.
; APPLICANT: Engelhard, Eric K.
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR
; FILE REFERENCE: 529452000122
; CURRENT APPLICATION NUMBER: US/10/087,192
; CURRENT FILING DATE: 2002-03-01
; PRIOR APPLICATION NUMBER: US 09/747,377
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/798,586
; PRIOR FILING DATE: 2001-03-02
; NUMBER OF SEQ ID NOS: 2059
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 120
; LENGTH: 354
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-087-192-120

Query Match 2.9%; Score 146; DB 12; Length 354;
Best Local Similarity 20.4%; Pred. No. 0.00098;
Matches 89; Conservative 48; Mismatches 147; Indels 152; Gaps 19;

Qy 219 DTQVLEPPLPLEINSRVSLKG-----GETIESGTVFCDVLPCKESLGYFVGVDMDN 269
Db 53 ETQEEFVDDFRVGERVWVNGNKPFIQFLGET-----QFAPGQ-----WAGIVLDE 98
Qy 270 PIGNWDGRFDGVLCSFACVSESTILLHINDIIPESVTQERRPPKAPMWSRGVKGSSSHN 329
Db 99 PIGNWDGVSAGVR-YFQCEP-----LKGIF-----TRPSKL-----QA 134
Qy 330 KPATGSTDPCGNRRSELYFTLNGSSVDSQPSQSKNTWYIDEVADPAKSLTEITDFFD 389
Db 135 EDEANGLQTTASRATSPCTSTASWSSSPSTPSN----IQKPSQPA----- 179
Qy 390 RSSPPLQPPVNSLTENRFLPSLTAKMPNTNGSIGHSPLSAQSVMEEINTAPVQ 449
Db 180 -AKEPSATPPISNLT-----KTASESISNLSAAGSIKK 211

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QY 450 SPPLAMPNGSHGLEVSLAEVKNENPPFYGVIRWITGQPPGLNEVLAGLEDEACAGCTGG 509
Db 212 -----GERELKIGDRVLVGGTKA--GVVRFLETDFAKGEWCGVEL-DEPLGKNDG 259
QY 510 TFRGTRYFTCALKKALFVKLKSCRPSDRFASIQVSNQIERCNSLAFGGYLVSEVVENTP 569
Db 260 AVAGTRYFOQPKYGLFA-----PVHKVTKIGF-----PSTTP 292
QY 570 PKMEKEGL-EIMIGKKKGIOGHNSCYLSDTLFCLFAPSSVLDTVLLRPKEKNDVEYSE 628
Db 293 AKAKANARVRVMTTSSASLKRSPASSLS-----MSSVASSVSRPS----- 335
QY 629 TOELLRTIEVNPRIY 644
Db 336 -----RTGLVRPLSHY 346

RESULT 6
US-10-108-260A-2751
; Sequence 2751, Application US/10108260A
; Publication No. US2004005560A1
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. US2004005560A1 full length cDNA
; FILE REFERENCE: H1-A0106
; CURRENT APPLICATION NUMBER: US/10/108,260A
; NUMBER OF SEQ ID NOS: 2458
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2751
; LENGTH: 547
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-108-260A-2751

Query Match 2.8%; Score 143; DB 15; Length 547;
Best Local Similarity 21.0%; Pred. No. 0.0038;
Matches 120; Conservative 59; Mismatches 174; Indels 218; Gaps 24;

QY 32 DKQTQKLLKVPKGSIGQYIQDRSVGHSRIPSAKKNQIGLKILEQ----- 77
Db 64 DPACQELPDPQTTPELF---AIVRQWVPQVQHKIDVIGNEILRRGCHVNDRDGLTDMT 120
QY 78 -----PHAVLFVDEVDVEINEKFTELLAITNCEERFSLFKNNRLSKGL 122
Db 121 LLHYACKAGAGVGDPAAV-----RLSQQLLALGADVTLRSRTWNNALHYAA 169
QY 123 QIDVGCVPKVLRSBEKEKPGVVR-----FRGPLLAERTVSGIFFGVE--LLEEGRGQGF 175
Db 170 YFDVDPDLVRVLKLGAR---PRVNVSTCSDFNHGSALHIAASSICLGAACKLLEHGANPAL 226
QY 176 TGVVVGKQLFQDDECGFVALDKLE---LIEDDDTALSS-----DYAG-P 217
Db 227 RN--RKGVPAEYVPPDMDMSLDKAAALVAKELRTLLEEAVALSCALPKVTLPNDVNP 284
QY 218 GDTMQVELPPLPINSRVSLKGGTIESGTIVICDVLPGKESLGYFVGVDMDNPIGNWDGR 277
Db 285 GNIMLSAL-GLRLGDRVLIDGQKT---GTLRCGTT--BFASQWVGVELDEPEKNGDS 338
QY 278 FDGV---LCS-----PACVESTILLHINDIIPESVTQERRPPKLFMSRGVGDKGSSSH 329
Db 339 VGVVRYFICPPKQGLFASYSK--ISKAVDAPSSVSTSTPTPRMDF-SRVTG-KGREHK 394
QY 330 KPKATGSTDPGNRRSELFTYTLNGSSVDQPSQSKNTWYIDEVADPAKSTIESTDFD 389
Db 395 GKKTTPSSPSLSLQO-----RDGAKA----- 416
QY 390 RSSPPLQPPVNSLITENRPHSLPFLTKMPNTNGSIGHSPLSLSAQSVMEELNTPAVQE 449
Db 417 ----- 416
QY 450 SPPLAMPNGSHGLEVGS---LAEVKNENPPFYGVIRWITGQPPGLNEVLAGLEDEACAG 506
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Db 417 -----EVGDQVLVAGQKQ-----GIVRFYKTDPAFGWYGIEL-DQPTGK 456
QY 507 TDGTRGTRYFTCALKKALFVKLKSCRPSDR 537
Db 457 HDGSVGVGVRYFTCPPRHGVFA-----PASR 481

RESULT 7
US-10-275-595A-13
; Sequence 13, Application US/10275595A
; Publication No. US20040078804A1
; GENERAL INFORMATION:
; APPLICANT: YUE, Henry
; APPLICANT: TANG, Y. Tom
; APPLICANT: AU-YOUNG, Janice
; APPLICANT: LU, Dying Aina M.
; APPLICANT: BAUGHN, Mariah R. L.
; APPLICANT: HILLMAN, Jennifer L.
; APPLICANT: AZIMZAI, Yalda
; APPLICANT: LAL, Preeti
; APPLICANT: YAO, Monique G.
; APPLICANT: BANDMAN, Olga
; APPLICANT: BURFORD, Neil
; APPLICANT: BATRA, Sajeev
; APPLICANT: KEARNEY, Liam
; APPLICANT: POLICKY, Jennifer L.
; TITLE OF INVENTION: CYTOSKELETON-ASSOCIATED PROTEINS
; FILE REFERENCE: PF-0772 USN
; CURRENT APPLICATION NUMBER: US/10/275,595A
; PRIOR FILING DATE: 2003-06-13
; PRIOR APPLICATION NUMBER: US 60/201,960
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: US 60/202,729
; PRIOR FILING DATE: 2000-05-08
; PRIOR APPLICATION NUMBER: US 60/209,705
; PRIOR FILING DATE: 2000-06-05
; PRIOR APPLICATION NUMBER: US 60/210,149
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: US 60/213,215
; PRIOR FILING DATE: 2000-06-21
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: PERL Program
; SEQ ID NO 13
; LENGTH: 547
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 1295420CD1
US-10-275-595A-13

Query Match 2.8%; Score 143; DB 16; Length 547;
Best Local Similarity 21.0%; Pred. No. 0.0038;
Matches 120; Conservative 59; Mismatches 174; Indels 218; Gaps 24;

QY 32 DKQTQKLLKVPKGSIGQYIQDRSVGHSRIPSAKKNQIGLKILEQ----- 77
Db 64 DPACQELPDPQTTPELF---AIVRQWVPQVQHKIDVIGNEILRRGCHVNDRDGLTDMT 120
QY 78 -----PHAVLFVDEVDVEINEKFTELLAITNCEERFSLFKNNRLSKGL 122
Db 121 LLHYACKAGAGVGDPAAV-----RLSQQLLALGADVTLRSRTWNNALHYAA 169
QY 123 QIDVGCVPKVLRSBEKEKPGVVR-----FRGPLLAERTVSGIFFGVE--LLEEGRGQGF 175
Db 170 YFDVDPDLVRVLKLGAR---PRVNVSTCSDFNHGSALHIAASSICLGAACKLLEHGANPAL 226
QY 176 TGVVVGKQLFQDDECGFVALDKLE---LIEDDDTALSS-----DYAG-P 217
Db 227 RN--RKGVPAEYVPPDMDMSLDKAAALVAKELRTLLEEAVALSCALPKVTLPNDVNP 284
QY 218 GDTMQVELPPLPINSRVSLKGGTIESGTIVICDVLPGKESLGYFVGVDMDNPIGNWDGR 277
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Db 285 GNLMLSAL-GLRLGDRVLLDQKT---GTLRFQGT---EFASGQWVGVELDEPEKNDGS 338  
Qy 278 FDGV---LCS-----FACVESTILLHNDIIPESVTQERRPPKLAFLPMRGVGDKGSSSHN 329  
Db 339 VGVVRYFICPPKQGLFASVSK--ISKAVDAPSSVTSTPRTRMDP--SRVTG-KGRREHK 394  
Qy 330 KPKATGSTDGPNRRSELFTYTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTDFD 389  
Db 395 GKKTTPSSPSLSGLQQ-----RDGAKA----- 416  
Qy 390 RSSPPLQPPVNSLTENRFSHLPSTLTKMPTNGSIGHSPLSLSAQSVMEELNAPVQE 449  
Db 417 ----- 416  
Qy 450 SPPLAMPNGSHGLEVGS---LAEVKENPPFYGVIRWICQPPGLNEVLAGLELEDECAGC 506  
Db 417 -----EVGDQVLVAGQKQ-----GIVRFYKTDPAFGYWGIEL-DOPTGK 456  
Qy 507 TDGFRGTRYFTCAKKALFVKLSCRPSR 537  
Db 457 HDGSVFGVRYFTCPRHGVFA-----PASR 481

## RESULT 8

US-10-104-047-2990  
; Sequence 2990, Application US/10104047  
; Publication No. US20030236392A1  
; GENERAL INFORMATION:  
; APPLICANT: HELIX RESEARCH INSTITUTE  
; FILE OF INVENTION: NO. US20030236392A1el full length cDNA  
; CURRENT APPLICATION NUMBER: US/10/104,047  
; PRIOR FILING DATE: 2002-03-25  
; PRIOR APPLICATION NUMBER:  
; PRIOR FILING DATE:  
; NUMBER OF SEQ ID NOS: 4096  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2990  
; LENGTH: 306  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-104-047-2990

Query Match 2.7%; Score 135.5; DB 15; Length 306;  
Best Local Similarity 22.7%; Pred. No. 0.0064;  
Matches 80; Conservative 30; Mismatches 90; Indels 153; Gaps 15;

Qy 196 ALDKLEIEDDDTALESYAGPGDTMQVELPPLNRSVSLKGGTIESGTIVIFCDVLPG 255  
Db 30 ALPKVTLPNYDNV-----PGNLMLSAL-GLRLGDRVLLDQKT---GTLRFQGT-- 75  
Qy 256 KESLGYFVGVDMDNPIGNWDGRFGV---LCS-----FACVESTILLHNDIIPESVTQE 307  
Db 76 EFASGQWVGVELDEPEKNDGSVGVRYFICPPKQGLEFASVSK--ISKAVDAPSSVTST 133  
Qy 308 RRPKLAFLMARGVDKGSSSHNKPKATGSTDPGNRRSELFTYTLNGSSVDSQPSKSKNT 367  
Db 134 PRTRMDP--SRVTG-KGRREHKKKKTPSSPSLSGLQQ----- 169  
Qy 368 WYIDEVAEDPAKSLTEISTDFDRSPPLQPPPVNSLTENRFSHLPSTLTKMPTNGSIG 427  
Db 170 -----RDGAKA----- 175  
Qy 428 HSPLSLSAQSVMEELNAPVQESPLAMPNGSHGLEVGS---LAEVKENPPFYGVIRWI 484  
Db 176 -----EVGDQVLVAGQKQ-----GIVRFY 194  
Qy 485 QPPGLNEVLAGLELEDECAGCTDGTFRGTRYFTCAKKALFVKLSCRPSR 537  
Db 195 GKTDPAFGYWGIEL-DOPTGKHDSVFGVRYFTCPRHGVFA-----PASR 240

## RESULT 9

US-09-764-875-857  
; Sequence 857, Application US/09764875  
; Publication No. US20040018969A1  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
; FILE REFERENCE: PJ202  
; CURRENT APPLICATION NUMBER: US/09/764,875  
; CURRENT FILING DATE: 2001-01-17  
; Prior application data removed - consult PALM or file wrapper  
; NUMBER OF SEQ ID NOS: 1249  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 857  
; LENGTH: 721  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: SITE  
; LOCATION: (123)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (358)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
; NAME/KEY: SITE  
; LOCATION: (485)  
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-764-875-857

Query Match 2.7%; Score 135.5; DB 11; Length 721;  
Best Local Similarity 23.1%; Pred. No. 0.028;  
Matches 82; Conservative 44; Mismatches 132; Indels 97; Gaps 14;  
Qy 193 GFVALDKLEIEDDD-----TALB-----SDYAGPGDTMQVELPPL 228  
Db 132 GYEDLTFTLLEEDLDELINRDPHEHRAVLLTAVELLQBYDSNDSGSGQEKLVDSQGL 191  
Qy 229 E-INSRVS--LKGGTIESGTIVIFCDVLPGKESLGYFVGVDMDNPIGNWDGRFDGVLCSF 285  
Db 192 SGCSPRDSGCVESSENLENGKTRKASILLSAKSSTEPSLKSFSRNQNGY----- 240  
Qy 286 ACVESTILLHNDIIPESVTQERRPPKLAFLPMRGVGDKGSSSHNKPKATGSTSDPGNRRS 345  
Db 241 ---PTPLMKSGDALKQGOEGR-----LGGGLAPDTSKSCDPPGVTLGNK---NRRS 287  
Qy 346 -----ELFYTLNG--SSVDSQPSKSKNTWYID-----EVAEDPAKSLTEISTDFD 389  
Db 288 LPVSIKRCSETLEGPTQVTDWPRSHSLDQLQVEPGAEDVPTTEVTPPPQIVPEVPQKTT 347  
Qy 390 RSSPPLQPPPVNS-----LTTENRFSHLPSTLTKMPTNGSIGHSPLSLSAQSVMEELN 443  
Db 348 ASSTKAQPLEXDSAVDNALLLTQSRFSEPOKLT-TKKLEGSIAASGRGL----- 396  
Qy 444 TAPVOESPL-----AMPNGNSHGLEVGSIAEVKENPPFYGVIRWIGOPPGIN 491  
Db 397 -----SPPQCLPRNYDAQPPGAKHGLARTPLEGHRKGHEFEFGTHHPGLTGKQVD 445

## RESULT 10

US-10-282-122A-66115  
; Sequence 66115, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Ohlsen, Kari  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert

APPLICANT: Forsyth, R.  
APPLICANT: Xu, H.  
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
FILE REFERENCE: ELITRA.034A  
CURRENT APPLICATION NUMBER: US/10/282,122A  
CURRENT FILING DATE: 2003-02-20  
PRIOR APPLICATION NUMBER: 60/191,078  
PRIOR FILING DATE: 2000-03-21  
PRIOR APPLICATION NUMBER: 60/206,848  
PRIOR FILING DATE: 2000-05-23  
PRIOR APPLICATION NUMBER: 60/207,727  
PRIOR FILING DATE: 2000-05-26  
PRIOR APPLICATION NUMBER: 60/230,335  
PRIOR FILING DATE: 2000-09-06  
PRIOR APPLICATION NUMBER: 60/230,347  
PRIOR FILING DATE: 2000-09-09  
PRIOR APPLICATION NUMBER: 60/242,578  
PRIOR FILING DATE: 2000-10-23  
PRIOR APPLICATION NUMBER: 60/253,625  
PRIOR FILING DATE: 2000-11-27  
PRIOR APPLICATION NUMBER: 60/257,931  
PRIOR FILING DATE: 2000-12-22  
PRIOR APPLICATION NUMBER: 60/267,636  
PRIOR FILING DATE: 2001-02-09  
PRIOR APPLICATION NUMBER: 60/269,308  
PRIOR FILING DATE: 2001-02-16  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 78614  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 66115  
LENGTH: 2273  
TYPE: PRT  
ORGANISM: Neisseria meningitidis  
US-10-282-122A-66115

Query Match 2.7%; Score 135.5; DB 12; Length 2273;  
Best Local Similarity 20.4%; Pred. No. 0.2;  
Matches 177; Conservative 112; Mismatches 315; Indels 265; Gaps 42;

QY 34 OTQKLLKVPKSGIQYQIDRSYCHSRIPSAKKNQKQIGLKILEOPHAVLFDVEDVVEINE 93  
DB 1345 QGTSTISSQGVG-----ISSGKISIDAAQRYSOESQVYEQKGVTVVAISVPVNTVM 1399

QY 94 KTELLLATNC-----EERFSLFKNNRLSKGLQIDV-----GCPVKVQLRS 136  
DB 1400 GAVDAKAVQTVKSKNSRVNMAAANALNKGVDSCVALYNARNPKKAAGQGISVVTY 1459

QY 137 GEEKFPVVRFRPGLLAERTVSGIFPG--VELLEGRGQFT-----DGVYQK----- 183  
DB 1460 GEOKNTSESRIKGTQVQCKITG---GGKVSILTASGAKDSRITITGSDVYGGKGRPKA 1516

QY 184 -----QLPQDCEGCF---VALDKLELIEDDDTALESYA---GPGDTMQVE 224  
DB 1517 ENAVOIEAARQTHOERSENKSGAFNAGVAIAINKGISFGFTA--GANYGKYGNGDEYATYR 1575

QY 225 LPPLEINRSVLKGBT--TESG--TVIFCDVLPKESLGVFVGVDMNDPIGNWGRFDGV 281  
DB 1576 -----NSHIGSKDSQTALIESGDTVIKGQKLGKG---VGVTAS----- 1612

QY 282 LCSFACVESTILLIINDIIPESVTQERRPPKLAFMRSRGVGDGSSSHNPKPKATGSDPG 341  
DB 1613 -----LHIESLQDTAVFKGQENVAQVTVGVFGSVGGSYNRSK---SSDYA 1657

QY 342 ---NRSELFP-----YTLN-----GSSVDQPSQSKN-----TWYID-EVAEDPAK 379  
DB 1658 SYNEQSGIFAGGQGYRIRVNGKTGLVGAAVVSD--ADKSNLLKTSIWHKDIQNHASAAA 1716

QY 380 SLTEISTDQDRSPPLQPPPPVNSLTTENRFHSLPFLSLTKMPTNNGSIGHSPLSL----- 433  
DB 1717 SALGUSGGFSYAPKP-----TSGQYS-----TKKEAIGIKGKPVSLMRFDQV 1760

QY 434 SAQSVMEELNTAPVQBS-----PPLAMPPPGNHSHGLEVG----- 466

DB 1761 SAKD--DELNEKYRSRIETKGETTFKEANLNQNNAGGLKFLKQNDIHSNDKYALAKMGLG 1818  
QY 467 SLAEVKENPPYPYGVIRWTGQPPGLNE---VLAGLELEDEACAGCTDGTFRGTGYFTCALK 522  
DB 1819 NLGNAKESSESQSTRSV-----ISEGDWQIASAQGRKNIAGIEKGTSSAHKALAKADR 1873  
QY 523 KALFVKLXSCRDPDSRFASLOPVSNQIERCNSLAFGGYLSV-----VEEN 567  
DB 1874 EGLLKEVELNRDVAK-----EFINETLIGGIADAEVRSQFIAEHLRLMTFKMDEN 1922  
QY 568 TPPKMEKEGLEIMIGKKGIQGHYNSCYLDSLTFLCLFAPFSSVLD-----TVLLRPK 618  
DB 1923 GEP-IEDKQLEEDINKQ-----FDNSVKLKEKKEFASPKDYWEAYKAIGNIYELR 1970  
QY 619 EKNDVEYYSETQELRLTEIVNPLRIYGVYCATKIMKRLKILEKVEAASGTSBEK-----D 674  
DB 1971 EVSD---QERKNLKTARYTDPET--GKTVEKIVGVNGVIFNNIQAQAKFAAQYVGRFN 2024  
QY 675 PEE-----FLNILFHHILRVPELLKIRSAGQKQVQDCYFYQIFMEKNEKVGVPTIQOLLE 728  
DB 2025 PEKNRYERTYENVYFLH---NPETNGRG-----FSKLPEIAVAFAFHOMLE 2066  
QY 729 WSFINSNLKFAEAPSCLLIQ--MPRFKGD 755  
DB 2067 GAKIGNKTVIGLSNGLAGNIMEDYKGD 2095

## RESULT 11

US-09-764-868-731  
Sequence 731, Application US/09764868  
Patent No. US20020168711A1  
GENERAL INFORMATION:  
APPLICANT: Rosen et al.  
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
FILE REFERENCE: PT232  
CURRENT APPLICATION NUMBER: US/09/764,868  
CURRENT FILING DATE: 2001-01-17  
Prior application data removed - refer to PALM or file wrapper  
NUMBER OF SEQ ID NOS: 1510  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 731  
LENGTH: 721  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (123)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-764-868-731

Query Match 2.7%; Score 134.5; DB 9; Length 721;  
Best Local Similarity 23.1%; Pred. No. 0.034;  
Matches 82; Conservative 44; Mismatches 132; Indels 97; Gaps 14;

QY 193 GFVALDKLELIEDDD-----TALE-----SDVAGPGDTMQVELPPL 228  
DB 132 GYEDLDTFKLEEDLDELNIRDPEHRAVLLTAVELLQEYDSNDSQSGSKLLVDSQGL 191

QY 229 E-INRSV--LKGGETIESGTVIFCDVLPKESLGVFVGVDMNDPIGNWGRFDGVLCSP 285  
DB 192 SGCSPRDSGYESSENLENGKTRKASLLSAKSTEPSLSKFSFRNLGNY----- 240

QY 286 ACVESTILLIINDIIPESVTQERRPPKLAFMRSRGVGDGSSSHNPKPKATGSDPGNRRS 345  
DB 241 ---PTLPLMKSGDALKQGOEGR-----LGGLAPDTSKSCDPPGVTLNK---NRRS 287

QY 346 -----ELFVYTLNG--SSVDQPSQSKNTWYID-----EVAEDPAKSLTEISTD 389  
DB 288 LPVSIICRSCETLEGPTVDTWPSHSLDDLQVEPGAQDVPTETVTEPPQIVPEVPKTT 347

QY 390 RSPPLQPPPVNS-----LTTENRFHSLPFLSLTKMPTNNGSIGHSPLSLSAQSVMEELN 443  
DB 348 ASSTKAQPLEQDSAVDNALLLTQSKRFSEPKLT-TKKLEGSIAASGRGL----- 396







GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: April 28, 2004, 10:08:29 ; Search time 190 Seconds  
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4875.131 Million cell updates/sec

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Searched: 6019581 seqs, 976053577 residues

Total number of hits satisfying chosen parameters: 6019581

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Post-processing: Minimum Match 0%  
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length DB ID	Description
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1	5034	100.0	949	20	US-09-671-687A-3	Sequence 3, Appli
2	4983	99.0	953	1	PCT-US02-27777-137	Sequence 137, App
3	4983	99.0	953	1	PCT-US02-27777A-137	Sequence 137, App
4	4971.5	98.8	956	1	PCT-US02-14570-4	Sequence 4, Appli
5	4971.5	98.8	956	23	US-09-851-673-4	Sequence 4, Appli
6	4971.5	98.8	956	32	US-10-755-889-490	Sequence 490, App
7	4971.5	98.8	956	33	US-60-440-068-430	Sequence 490, App
8	4971.5	98.8	956	33	US-60-469-757-490	Sequence 490, App
9	3876.5	77.0	739	1	PCT-US01-01239-1743	Sequence 1743, Ap
10	3876.5	77.0	739	22	US-09-764-902-1743	Sequence 1743, Ap
11	3862	76.7	731	22	US-09-786-797B-9	Sequence 9, Appli
12	3862	76.7	731	33	US-60-131-321-7	Sequence 9, Appli
13	3855	76.6	731	20	US-09-629-459A-18843	Sequence 18843, A
14	3636	72.2	685	18	US-09-488-725A-2399	Sequence 2399, Ap
15	3636	72.2	685	28	US-10-258-898A-2399	Sequence 2399, Ap
16	3636	72.2	685	28	US-10-286-897-2399	Sequence 2399, Ap
17	3563	70.8	698	18	US-09-488-725A-5971	Sequence 5971, Ap
18	3563	70.8	698	28	US-10-258-898A-5971	Sequence 5971, Ap
19	3563	70.8	698	28	US-10-286-897-5971	Sequence 5971, Ap
20	2755	54.7	558	1	PCT-US01-01239-1207	Sequence 1207, Ap
21	2755	54.7	558	22	US-09-764-902-1207	Sequence 1207, Ap
22	2455	48.8	512	1	PCT-US01-14827-12400	Sequence 12400, A
23	2343	46.5	476	20	US-09-629-469A-18587	Sequence 18587, A
24	1751	34.8	394	1	PCT-US01-14827-12399	Sequence 12399, A
25	1275	25.3	261	1	PCT-US01-16450-1609	Sequence 1609, Ap
26	1275	25.3	261	1	PCT-US01-16450A-1609	Sequence 1609, Ap
27	1275	25.3	261	28	US-10-264-237-1609	Sequence 1609, Ap
28	1173	23.3	238	1	PCT-US01-16450-1610	Sequence 1610, Ap
29	1173	23.3	238	1	PCT-US01-16450A-1610	Sequence 1610, Ap
30	1173	23.3	238	28	US-10-264-237-1610	Sequence 1610, Ap
31	856	17.0	517	20	US-09-614-150-11799	Sequence 11799, A
32	856	17.0	517	20	US-09-614-150A-11799	Sequence 11799, A
33	856	17.0	517	33	US-60-191-637-11813	Sequence 11813, A
34	856	17.0	517	33	US-60-191-681-9275	Sequence 9275, Ap
35	786.5	15.6	167	1	PCT-US01-14827-15309	Sequence 15309, A
36	775	15.4	188	22	US-09-758-472-8763	Sequence 8763, Ap
37	775	15.4	188	28	US-10-235-926-8763	Sequence 8763, Ap
38	742.5	14.7	583	33	US-60-167-217-11813	Sequence 11813, A
39	742.5	14.7	583	33	US-60-173-464-9570	Sequence 9570, Ap
40	732	14.5	145	1	PCT-US01-14827-12395	Sequence 12395, A
41	732	14.5	145	1	PCT-US01-14827-12308	Sequence 12308, A
42	597	11.9	113	1	PCT-US01-00663-27668	Sequence 27668, A
43	597	11.9	113	23	US-09-864-761-34675	Sequence 34675, A
44	597	11.9	113	27	US-10-182-993-26809	Sequence 26809, A
45	597	11.9	113	27	US-10-182-995-21147	Sequence 21147, A

## ALIGNMENTS

RESULT 1  
US-09-671-687A-3  
; Sequence 3, Application US/09671687A  
; GENERAL INFORMATION:  
; APPLICANT: WALLACH, David  
; APPLICANT: KOVALENKO, Andrei  
; APPLICANT: CANTARELLA, Giuseppina  
; TITLE OF INVENTION: INHIBITOR OF NF-KB ACTIVATOR  
; FILE REFERENCE: WALLACH=25  
; CURRENT APPLICATION NUMBER: US/09/671,687A  
; CURRENT FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 09/646,403  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: IL 126024  
; PRIOR FILING DATE: 1998-09-01  
; PRIOR APPLICATION NUMBER: IL 134604  
; PRIOR FILING DATE: 2000-02-17  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3  
; LENGTH: 949  
; TYPE: PRT  
; ORGANISM: Homo sapiens

US-09-671-687A-3

Query Match 100.0%; Score 5034; DB 20; Length 949;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 949; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSSGLWSQEKVTSPLYWEERIFVLLLOECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60  
Db 1 MSSGLWSQEKVTSPLYWEERIFVLLLOECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60

Qy 61 PSAKGKKNQIGLILQPHAVLPVDE-DVVEINEKETELLALATNCEERSLFKNRRLSK 120  
Db 61 PSAKGKKNQIGLILQPHAVLPVDE-DVVEINEKETELLALATNCEERSLFKNRRLSK 120

Qy 121 GLQIDVGCPCVKQLRSGBEKFPGVFRGFLPLAERTVSGIFFGVLELLEGRGQGFDTGVY 180  
Db 121 GLQIDVGCPCVKQLRSGBEKFPGVFRGFLPLAERTVSGIFFGVLELLEGRGQGFDTGVY 180

Qy 181 QGKQLFQCDDECGFVALDKLEIEDDDTALSDYAGPDTMQVELPPLINSRVSLKGG 240  
Db 181 QGKQLFQCDDECGFVALDKLEIEDDDTALSDYAGPDTMQVELPPLINSRVSLKGG 240

Qy 241 TTIESGTIVFCDLVPGKESLGYFVGVDMDNPIGNWDRFGVLCFACVESTILLHNDII 300  
Db 241 TTIESGTIVFCDLVPGKESLGYFVGVDMDNPIGNWDRFGVLCFACVESTILLHNDII 300

Qy 301 PESVTOERRPPKLAFLMSRGVGDGSSSHNKPATGSTSDPGRNRSELFTYLGSSVDSQP 360  
Db 301 PESVTOERRPPKLAFLMSRGVGDGSSSHNKPATGSTSDPGRNRSELFTYLGSSVDSQP 360

Qy 361 QSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNRRFHSLPFSLTKMP 420  
Db 361 QSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNRRFHSLPFSLTKMP 420

Qy 421 NTNGSIGHSPLSLSAQSVMEELNTAPVQSSPPLAMPNGSHGLEVSLAEVKENPPFYGV 480  
Db 421 NTNGSIGHSPLSLSAQSVMEELNTAPVQSSPPLAMPNGSHGLEVSLAEVKENPPFYGV 480

Qy 481 IRWIGOPGLNEVLAGELEDEACAGTGTGTRFTCALKALFVKLSKCRPDGRFAS 540  
Db 481 IRWIGOPGLNEVLAGELEDEACAGTGTGTRFTCALKALFVKLSKCRPDGRFAS 540

Qy 541 LQPVNSQIERCNSLAFGGYLSVEVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 600  
Db 541 LQPVNSQIERCNSLAFGGYLSVEVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 600

Qy 601 FCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETVNPRLRYGVVCATKIMKRLKILE 660  
Db 601 FCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETVNPRLRYGVVCATKIMKRLKILE 660

Qy 661 KVEAASGFTSEEDKPEEFNLPHHILRVEPLLKIRSAQKVQDCYFYQIFMEKNEKGV 720  
Db 661 KVEAASGFTSEEDKPEEFNLPHHILRVEPLLKIRSAQKVQDCYFYQIFMEKNEKGV 720

Qy 721 PTIQQLLEWSFINSNLKFAEAPSCIIQMPRFCKDFKLKKIPPSLELNTDLETPRQ 780  
Db 721 PTIQQLLEWSFINSNLKFAEAPSCIIQMPRFCKDFKLKKIPPSLELNTDLETPRQ 780

Qy 781 CRICGGLAMYECREYDDPDISAGKIKQFCKTCTNTQVHLHPKRLNHNKYNPVSPLKPLDPW 840  
Db 781 CRICGGLAMYECREYDDPDISAGKIKQFCKTCTNTQVHLHPKRLNHNKYNPVSPLKPLDPW 840

Qy 841 DWRHGCI PQNMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNIPQVT 900  
Db 841 DWRHGCI PQNMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNIPQVT 900

Qy 901 PCPEVGEYLKMSLEDLHSLDSRRIQGCARRLLCDAWCMYQSPMTSLYK 949  
Db 901 PCPEVGEYLKMSLEDLHSLDSRRIQGCARRLLCDAWCMYQSPMTSLYK 949

RESULT 2  
PCT-US02-27777-137

; Sequence 137, Application PC/TUS0227777  
; GENERAL INFORMATION:  
; APPLICANT: diaDexus, Inc.  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Salceda, Susana  
; TITLE OF INVENTION: Compositions and Methods Relating to Breast Specific Genes and Pr  
; FILE REFERENCE: DEX-0346  
; CURRENT APPLICATION NUMBER: PCT/US02/27777  
; CURRENT FILING DATE: 2002-08-29  
; PRIOR APPLICATION NUMBER: US 60/316,306  
; PRIOR FILING DATE: 2001-08-31  
; NUMBER OF SEQ ID NOS: 170  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 137  
; LENGTH: 953  
; TYPE: PRT  
; ORGANISM: Homo sapien  
; PCT-US02-27777-137

Query Match 99.0%; Score 4983; DB 1; Length 953;  
Best Local Similarity 99.5%; Pred. No. 0;  
Matches 948; Conservative 0; Mismatches 1; Indels 4; Gaps 4;

Qy 1 MSSGLWSQEKVTSPLYWEERIFVLLLOECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60  
Db 1 MSSGLWSQEKVTSPLYWEERIFVLLLOECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60

Qy 61 PSAKGKKNQIGLILQPHAVLPVDE-DVVEINEKETELLALATNCEERSLFKNRRLS 119  
Db 61 PSAKGKKNQIGLILQPHAVLPVDE-DVVEINEKETELLALATNCEERSLFKNRRLS 120

Qy 120 KGLQIDVGCPCVKQLRSGBEKFPGVFRGFLPLAERTVSGIFFGVLELLEGRGQGFDTGV 179  
Db 120 KGLQIDVGCPCVKQLRSGBEKFPGVFRGFLPLAERTVSGIFFGVLELLEGRGQGFDTGV 180

Qy 180 YGKQLFQCDDECG-FVALDKLEIEDDDTALSDYAGPDTMQVELPPLINSRVSLKG 238  
Db 180 YGKQLFQCDDECGFVALDKLEIEDDDTALSDYAGPDTMQVELPPLINSRVSLKV 240

Qy 239 GETIESGTIVFCDLVPGKESLGYFVGVDMDNPIGNWDRFGV-LCSFACVESTILLHIN 297  
Db 241 GETIESGTIVFCDLVPGKESLGYFVGVDMDNPIGNWDRFGVLCFACVESTILLHIN 300

Qy 298 DIIPESVTOERRPPKLAFLMSRGVGDGSSSHNKPATGSTSDPGRNR-RSELFTYLGSSV 356  
Db 301 DIIPESVTOERRPPKLAFLMSRGVGDGSSSHNKPATGSTSDPGRNRSELFTYLGSSV 360

Qy 357 DSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNRRFHSLPFSL 416  
Db 361 DSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTNRRFHSLPFSL 420

Qy 417 TKMPTNGSIGHSPLSLSAQSVMEELNTAPVQSSPPLAMPNGSHGLEVSLAEVKENPP 476  
Db 421 TKMPTNGSIGHSPLSLSAQSVMEELNTAPVQSSPPLAMPNGSHGLEVSLAEVKENPP 480

Qy 477 FYGVIRWIGOPGLNEVLAGELEDEACAGTGTGTRFTCALKALFVKLSKCRPDS 536  
Db 481 FYGVIRWIGOPGLNEVLAGELEDEACAGTGTGTRFTCALKALFVKLSKCRPDS 540

Qy 537 RFASLQPVNSQIERCNSLAFGGYLSVEVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYL 596  
Db 541 RFASLQPVNSQIERCNSLAFGGYLSVEVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYL 600

Qy 597 DSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTETVNPRLRYGVVCATKIMKRL 656  
Db 601 DSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTETVNPRLRYGVVCATKIMKRL 660

Qy 657 KILEKVEAASGFTSEEDKPEEFNLPHHILRVEPLLKIRSAQKVQDCYFYQIFMEKNE 716  
Db 661 KILEKVEAASGFTSEEDKPEEFNLPHHILRVEPLLKIRSAQKVQDCYFYQIFMEKNE 720

Qy 717 KUGVPTIQQLLEWSFINSNLKFAEAPSCIIQMPRFCKDFKLKKIPPSLELNTDLETPRQ 776

Db 721 KVGVTIOQLLEWSPFNSLNKFAEAPSCIIIQMPFGKDFKFKIIPFSLNITDILED 780  
Qy 777 TPRQCRICGGLAMYECCYDDPDISAGKI KQFCKTQNTQVHLHPKRLNHNKYNPVSLLPKD 836  
Db 781 TPRQCRICGGLAMYECCYDDPDISAGKI KQFCKTQNTQVHLHPKRLNHNKYNPVSLLPKD 840  
Qy 837 LPDWDWRHGCIPCONMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQGNFI 896  
Db 841 LPDWDWRHGCIPCONMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQGNFI 900  
Qy 897 PQVTPCPEVGEYLKMSLEDLSLDSRRIOGCARRLLCDAYCMYQSPMTSLYK 949  
Db 901 PQVTPCPEVGEYLKMSLEDLSLDSRRIOGCARRLLCDAYCMYQSPMTSLYK 953

RESULT 3  
PCT-US02-27777A-137  
; Sequence 137, Application PC/TUS022777A  
; GENERAL INFORMATION:  
; APPLICANT: diabex, Inc.  
; APPLICANT: Sun, Yongming  
; APPLICANT: Liu, Chenghua  
; APPLICANT: Salceda, Susana  
; TITLE OF INVENTION: Compositions and Methods related to Breast Specific Genes and Pro  
; FILE REFERENCE: DEX-0346  
; CURRENT APPLICATION NUMBER: PCT/US02/2777A  
; CURRENT FILING DATE: 2002-10-24  
; PRIOR APPLICATION NUMBER: US 60/316,307  
; PRIOR FILING DATE: 2001-08-31  
; NUMBER OF SEQ ID NOS: 170  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 137  
; LENGTH: 953  
; TYPE: PRT  
; ORGANISM: Homo sapien  
PCT-US02-27777A-137

Query Match 99.0%; Score 4983; DB 1; Length 953;  
Best Local Similarity 99.5%; Pred. No. 0;  
Matches 948; Conservative 0; Mismatches 1; Indels 4; Gaps 4;  
Qy 1 MSSGLWSQEKVTSPTWEERIFVLLQECSTVDKQTKLLKVPKSGIGQYIQDRSVGHSRI 60  
Db 1 MSSGLWSQEKVTSPTWEERIFVLLQECSTVDKQTKLLKVPKSGIGQYIQDRSVGHSRI 60  
Qy 61 PSAKKNQIQLKLEQPHAVLFVDE-DVNEINEKFTELLAITNCEERFSLFKNRNLS 119  
Db 61 PSAKKNQIQLKLEQPHAVLFVDEKDVINEKFTELLAITNCEERFSLFKNRNLS 120  
Qy 120 KGLQIDVGCVPKVLRSGEKFPVVRFRGRLAERTVSGIFFGVLELLEGRGQFTDGV 179  
Db 121 KGLQIDVGCVPKVLRSGEKFPVVRFRGRLAERTVSGIFFGVLELLEGRGQFTDGV 180  
Qy 180 YQKQLFQCDDECG-FVALDKLELIEDDDTALESYAGPDTMQVELPPLINSRVSLKG 238  
Db 181 YQKQLFQCDDECGFVALDKLELIEDDDTALESYAGPDTMQVELPPLINSRVSLKV 240  
Qy 239 GETTESGTVPICDVLPGKESLGIFVGVDMNDPIGNWGRFGV-LCSFACVESTILLHN 297  
Db 241 GETTESGTVPICDVLPGKESLGIFVGVDMNDPIGNWGRFGVQLCSFACVESTILLHN 300  
Qy 298 DIIIESVTOERRPPKLAFWSGVGDGSSSHNPKATGSTSDPGRN-RSELFYTLNGSSV 356  
Db 301 DIIIESVTOERRPPKLAFWSGVGDGSSSHNPKATGSTSDPGRNRSSELFYTLNGSSV 360  
Qy 357 DSQOSKSNWYIDEVAEDPAKSLTEISTDFDRSSPLQPPVNSLTNFRFSLPFSL 416  
Db 361 DSQOSKSNWYIDEVAEDPAKSLTEISTDFDRSSPLQPPVNSLTNFRFSLPFSL 420  
Qy 417 TKMPTNGSIGHSPLSLSAQSVMEELNTPAQESPLAMPNCNSHGLVGLAEVKENPP 476  
Db 421 TKMPTNGSIGHSPLSLSAQSVMEELNTPAQESPLAMPNCNSHGLVGLAEVKENPP 480

Qy 477 FYGVIRWIGOPGLINEVLAGLELEDEACAGCTDGTFRGTRYFTCALKKALFVKLSKCRPDS 536  
Db 481 FYGVIRWIGOPGLINEVLAGLELEDEACAGCTDGTFRGTRYFTCALKKALFVKLSKCRPDS 540  
Qy 537 RFASIQPVSNQIERCNSLAFAGGYLSEVVEENTPPKMEKEGLEIMICKKGIQGHYNSCYL 596  
Db 541 RFASIQPVSNQIERCNSLAFAGGYLSEVVEENTPPKMEKEGLEIMICKKGIQGHYNSCYL 600  
Qy 597 DSTLFCFLFAFSVLDVILLRPKEKNDVEYYSQTELLRTEI VNPRLIYGVVCATKIMKLR 656  
Db 601 DSTLFCFLFAFSVLDVILLRPKEKNDVEYYSQTELLRTEI VNPRLIYGVVCATKIMKLR 660  
Qy 657 KILEKVEAASGFTSEKPEEPFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 716  
Db 661 KILEKVEAASGFTSEKPEEPFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 720  
Qy 717 KVGVTIOQLLEWSPFNSLNKFAEAPSCIIIQMPFGKDFKFKIIPFSLNITDILED 776  
Db 721 KVGVTIOQLLEWSPFNSLNKFAEAPSCIIIQMPFGKDFKFKIIPFSLNITDILED 780  
Qy 777 TPRQCRICGGLAMYECCYDDPDISAGKI KQFCKTQNTQVHLHPKRLNHNKYNPVSLLPKD 836  
Db 781 TPRQCRICGGLAMYECCYDDPDISAGKI KQFCKTQNTQVHLHPKRLNHNKYNPVSLLPKD 840  
Qy 837 LPDWDWRHGCIPCONMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQGNFI 896  
Db 841 LPDWDWRHGCIPCONMELFAVLCTIETSHYVAFVKYKDDSAWLPFDSMADRDGGQGNFI 900  
Qy 897 PQVTPCPEVGEYLKMSLEDLSLDSRRIOGCARRLLCDAYCMYQSPMTSLYK 949  
Db 901 PQVTPCPEVGEYLKMSLEDLSLDSRRIOGCARRLLCDAYCMYQSPMTSLYK 953

RESULT 4  
PCT-US02-14570-4  
; Sequence 4, Application PC/TUS0214570  
; GENERAL INFORMATION:  
; APPLICANT: IMMUNEX CORPORATION  
; APPLICANT: Derry, Jonathan M. J.  
; APPLICANT: Fanslow III, William  
; APPLICANT: Dougall, William C.  
; TITLE OF INVENTION: SCREENING ASSAYS FOR AGONISTS OR ANTAGONISTS OF CD40 SIGNALING  
; FILE REFERENCE: 3198-WO  
; CURRENT APPLICATION NUMBER: PCT/US02/14570  
; CURRENT FILING DATE: 2002-05-07  
; PRIOR APPLICATION NUMBER: 09/851,673  
; PRIOR FILING DATE: 2001-05-08  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 4  
; LENGTH: 956  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US02-14570-4

Query Match 98.8%; Score 4971.5; DB 1; Length 956;  
Best Local Similarity 99.2%; Pred. No. 0;  
Matches 948; Conservative 0; Mismatches 1; Indels 7; Gaps 5;  
Qy 1 MSSGLWSQEKVTSPTWEERIFVLLQECSTVDKQTKLLKVPKSGIGQYIQDRSVGHSRI 60  
Db 1 MSSGLWSQEKVTSPTWEERIFVLLQECSTVDKQTKLLKVPKSGIGQYIQDRSVGHSRI 60  
Qy 61 PSAKKNQIQLKLEQPHAVLFVDE-DVNEINEKFTELLAITNCEERFSLFKNRNLS 119  
Db 61 PSAKKNQIQLKLEQPHAVLFVDEKDVINEKFTELLAITNCEERFSLFKNRNLS 120  
Qy 120 KGLQIDVGCVPKVLRSGEKFPVVRFRGRLAERTVSGIFFGVLELLEGRGQFTDGV 179  
Db 121 KGLQIDVGCVPKVLRSGEKFPVVRFRGRLAERTVSGIFFGVLELLEGRGQFTDGV 180  
Qy 180 YQKQLFQCDDECG-FVALDKLELIEDDDTALESYAGPDTMQVELPPLINSRVSLKG 238

Db	181	YQKQLFQDCEDCGVFVALDKLELEIEDDTALESYAGPDMQVELPLEINSRSLKV	240
Qy	239	GETIESGTIVFCDVLPKESLGYFVGVDMDNPIGNWDGRFDGV-LCSFACVESTILLHIN	297
Db	241	GETIESGTIVFCDVLPKESLGYFVGVDMDNPIGNWDGRFDGV-LCSFACVESTILLHIN	300
Qy	298	DIIP---BSVTQERRPPKLAFAFMSRGVGDGKSSSHNKPATGTSDPGGR-RSELFTYTLNG	353
Db	301	DIIPALSESVTQERRPPKLAFAFMSRGVGDGKSSSHNKPATGTSDPGGRNRSELFTYTLNG	360
Qy	354	SSVDQPOSKSNKTWYIDEVAEDPAKSLTEISTDFDRSSPPLOPPVNSLTITENRPHSLP	413
Db	361	SSVDQPOSKSNKTWYIDEVAEDPAKSLTEISTDFDRSSPPLOPPVNSLTITENRPHSLP	420
Qy	414	FSLTKMPNTNGSIGHSPLSQAQSVMEELNTPAQVQSPPLAMPNGSHGLEVGSIAEVEKE	473
Db	421	FSLTKMPNTNGSIGHSPLSQAQSVMEELNTPAQVQSPPLAMPNGSHGLEVGSIAEVEKE	480
Qy	474	NPPFYGVIRWIGQPPGLNEVLAGELEDECAGCTDGTFRGTRYFTCALKKALFVKLKSCR	533
Db	481	NPPFYGVIRWIGQPPGLNEVLAGELEDECAGCTDGTFRGTRYFTCALKKALFVKLKSCR	540
Qy	534	PSRFRASLOPVNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS	593
Db	541	PSRFRASLOPVNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS	600
Qy	594	CYLDSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTIENVPLRIYGVVCATKIM	653
Db	601	CYLDSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTIENVPLRIYGVVCATKIM	660
Qy	654	KLRKILEKVEAASGFTSEBKDPEEFNLIFHILRVEPLLLKIRSAGQKQVDCYFYQIFME	713
Db	661	KLRKILEKVEAASGFTSEBKDPEEFNLIFHILRVEPLLLKIRSAGQKQVDCYFYQIFME	720
Qy	714	KNEKVGVPITIQOLLEWSFINSNLKFAEAPSLIIQMPREGKDFKLPKIFPSLELNTIDL	773
Db	721	KNEKVGVPITIQOLLEWSFINSNLKFAEAPSLIIQMPREGKDFKLPKIFPSLELNTIDL	780
Qy	774	LEDTPRQCRICGGLAMEYRECVDYDDPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVSJ	833
Db	781	LEDTPRQCRICGGLAMEYRECVDYDDPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVSJ	840
Qy	834	PKDLPDWDRHGICPCQNNMELFAVLCTIETSHYVAFVKYKDDSAWIFFDSMADRGQNG	893
Db	841	PKDLPDWDRHGICPCQNNMELFAVLCTIETSHYVAFVKYKDDSAWIFFDSMADRGQNG	900
Qy	894	FNIPQVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPPTMSLYK	949
Db	901	FNIPQVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPPTMSLYK	956

RESULT 5  
 US-09-851-673-4  
 ; Sequence 4, Application US/09851673  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Derry, Jonathan  
 ; APPLICANT: Fanslow, William  
 ; APPLICANT: Dougall, William  
 ; TITLE OF INVENTION: SCREENING ASSAYS FOR AGONISTS OR ANTAGONISTS OF CD40 SIGNALING  
 ; FILE REFERENCE: 3198  
 ; CURRENT APPLICATION NUMBER: US/09/851,673  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: PatentIn version 3.0  
 ; SEQ ID NO 4  
 ; LENGTH: 956  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-851-673-4  
 Query Match 98.8%; Score 4971.5; DB 23; Length 956;  
 Best Local Similarity 99.2%; Pred. No. 0;

	Matches	948;	Conservative	0;	Mismatches	1;	Indels	7;	Gaps	5;
Qy	1	MSGLWSQEKVTS	PYWEERI	FYLLLLQEC	SVTDK	QTKLLKVPKGS	IGQYIQDRSVGHSRI	60		
Db	1	MSGLWSQEKVTS	PYWEERI	FYLLLLQEC	SVTDK	QTKLLKVPKGS	IGQYIQDRSVGHSRI	60		
Qy	61	PSAKGKQIQIGL	KILLOPHAVL	FVDE	-DVVEINEK	TELLLAITNCEER	PSLFPKRNRLS	119		
Db	61	PSAKGKQIQIGL	KILLOPHAVL	FVDE	-DVVEINEK	TELLLAITNCEER	PSLFPKRNRLS	120		
Qy	120	KGLQIDVGC	VPVQLRSGEEK	PPGVVRFR	GPLLAERT	TVSGIPFGV	LELLBEGRCQGT	179		
Db	121	KGLQIDVGC	VPVQLRSGEEK	PPGVVRFR	GPLLAERT	TVSGIPFGV	LELLBEGRCQGT	180		
Qy	180	YQKQLFQDCEDCG	-FVALDKLE	LEIEDDTALES	YAGPDMQVEL	PLEINSRSLKV	238			
Db	181	YQKQLFQDCEDCG	-FVALDKLE	LEIEDDTALES	YAGPDMQVEL	PLEINSRSLKV	240			
Qy	239	GETIESGTIVFCDVLPKESLGYFVGVDMDNPIGNWDGRFDGV-LCSFACVESTILLHIN	297							
Db	241	GETIESGTIVFCDVLPKESLGYFVGVDMDNPIGNWDGRFDGV-LCSFACVESTILLHIN	300							
Qy	298	DIIP---ESVTQERRPPKLAFAFMSRGVGDGKSSSHNKPATGTSDPGGR-RSELFTYTLNG	353							
Db	301	DIIPALSESVTQERRPPKLAFAFMSRGVGDGKSSSHNKPATGTSDPGGRNRSELFTYTLNG	360							
Qy	354	SSVDQPOSKSNKTWYIDEVAEDPAKSLTEISTDFDRSSPPLOPPVNSLTITENRPHSLP	413							
Db	361	SSVDQPOSKSNKTWYIDEVAEDPAKSLTEISTDFDRSSPPLOPPVNSLTITENRPHSLP	420							
Qy	414	FSLTKMPNTNGSIGHSPLSQAQSVMEELNTPAQVQSPPLAMPNGSHGLEVGSIAEVEKE	473							
Db	421	FSLTKMPNTNGSIGHSPLSQAQSVMEELNTPAQVQSPPLAMPNGSHGLEVGSIAEVEKE	480							
Qy	474	NPPFYGVIRWIGQPPGLNEVLAGELEDECAGCTDGTFRGTRYFTCALKKALFVKLKSCR	533							
Db	481	NPPFYGVIRWIGQPPGLNEVLAGELEDECAGCTDGTFRGTRYFTCALKKALFVKLKSCR	540							
Qy	534	PSRFRASLOPVNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS	593							
Db	541	PSRFRASLOPVNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS	600							
Qy	594	CYLDSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTIENVPLRIYGVVCATKIM	653							
Db	601	CYLDSTLFCFLAFSSVLDTVLLRPKEKNDVEYSETQELLRTIENVPLRIYGVVCATKIM	660							
Qy	654	KLRKILEKVEAASGFTSEBKDPEEFNLIFHILRVEPLLLKIRSAGQKQVDCYFYQIFME	713							
Db	661	KLRKILEKVEAASGFTSEBKDPEEFNLIFHILRVEPLLLKIRSAGQKQVDCYFYQIFME	720							
Qy	714	KNEKVGVPITIQOLLEWSFINSNLKFAEAPSLIIQMPREGKDFKLPKIFPSLELNTIDL	773							
Db	721	KNEKVGVPITIQOLLEWSFINSNLKFAEAPSLIIQMPREGKDFKLPKIFPSLELNTIDL	780							
Qy	774	LEDTPRQCRICGGLAMEYRECVDYDDPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVSJ	833							
Db	781	LEDTPRQCRICGGLAMEYRECVDYDDPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVSJ	840							
Qy	834	PKDLPDWDRHGICPCQNNMELFAVLCTIETSHYVAFVKYKDDSAWIFFDSMADRGQNG	893							
Db	841	PKDLPDWDRHGICPCQNNMELFAVLCTIETSHYVAFVKYKDDSAWIFFDSMADRGQNG	900							
Qy	894	FNIPQVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPPTMSLYK	949							
Db	901	FNIPQVTPCPEVGEYKMSLEDLHSLDSRRIQGCARRLLCDAYMCYQSPPTMSLYK	956							

RESULT 6  
 US-10-755-889-490  
 ; Sequence 490, Application US/10755889  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bristol-Myers Squibb Company  
 ; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF-kB

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; TITLE OF INVENTION: PATHWAY
; FILE REFERENCE: D0284 NP
; CURRENT APPLICATION NUMBER: US/10/755,889
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: U.S. 60/440,068
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: U.S. 60/469,757
; PRIOR FILING DATE: 2003-05-12
; NUMBER OF SEQ ID NOS: 823
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 490
; LENGTH: 956
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-755-889-490

Query Match      98.8%; Score 4971.5; DB 32; Length 956;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 948; Conservative 0; Mismatches 1; Indels 7; Gaps 5;

QY 1 MSSGLWSQEKVTSPYWEERIFYLLQECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60
DB 1 MSSGLWSQEKVTSPYWEERIFYLLQECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60
QY 61 PSAGKKNQIGLKILEQPHAVLFVDE-DVVEINEKFTELLAITNCEERFSLFKNRNLS 119
DB 61 PSAGKKNQIGLKILEQPHAVLFVDEKDVWEINEKFTELLAITNCEERFSLFKNRNLS 120
QY 120 KGLQIDVGCVPKVLQRSGEEKFPGVVRFRGPLLAERTVSGIFFGVVELLEEGRGOGFTDGV 179
DB 121 KGLQIDVGCVPKVLQRSGEEKFPGVVRFRGPLLAERTVSGIFFGVVELLEEGRGOGFTDGV 180
QY 180 YQGKQLFQCDDEDCG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLNRSVLSKG 238
DB 181 YQGKQLFQCDDEDCGVFVALDKLELIEDDDTALESYAGPGDTMQVELPPLNRSVLSKV 240
QY 239 GETTESGTVIFCDVLPKESLGIFVGVDMNDPNI GNWDRGFDGV-LCSFACVESTILLHN 297
DB 241 GETTESGTVIFCDVLPKESLGIFVGVDMNDPNI GNWDRGFDGVLCFACVESTILLHN 300
QY 298 DIIP--ESVTQERRPPKLA FMSRGVGDGKSSSHNKPATGSTSDPGRN-RSELYFTLNG 353
DB 301 DIIPALSESVTQERRPPKLA FMSRGVGDGKSSSHNKPATGSTSDPGRNRSSELFTLNG 360
QY 354 SSVDSQPSQSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTENRPHSLP 413
DB 361 SSVDSQPSQSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTENRPHSLP 420
QY 414 FSLTKMPTNGSIGHSPLSLSAQSVMBELNTPAQESPPPLAMPNGSHGLEVGSLAEVKE 473
DB 421 FSLTKMPTNGSIGHSPLSLSAQSVMBELNTPAQESPPPLAMPNGSHGLEVGSLAEVKE 480
QY 474 NPFFYGVIRWIGQPPGLNEVLAGELEDEACAGTGTGTRGTYFTCALKKALFVKLSKR 533
DB 481 NPFFYGVIRWIGQPPGLNEVLAGELEDEACAGTGTGTRGTYFTCALKKALFVKLSKR 540
QY 534 PDSRFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLEIMIGKKKGIQGHVNS 593
DB 541 PDSRFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLEIMIGKKKGIQGHVNS 600
QY 594 CYLDDSTLFCFAFSSVLDTVLLRPKEKNDVYYSSETQELLRTETVNPRIYGYCATKIM 653
DB 601 CYLDDSTLFCFAFSSVLDTVLLRPKEKNDVYYSSETQELLRTETVNPRIYGYCATKIM 660
QY 654 KLRKILEKVEAASGFTSEKDPBEFLNLFPHILRVEPFLKIRSAQKQVQDCYFIQFME 713
DB 661 KLRKILEKVEAASGFTSEKDPBEFLNLFPHILRVEPFLKIRSAQKQVQDCYFIQFME 720
QY 714 KNEKVGVTITQOLLEWFSFINLKFAPASCLIIQMPRFGKDFKLPKFI PPSLELNTIDL 773
DB 721 KNEKVGVTITQOLLEWFSFINLKFAPASCLIIQMPRFGKDFKLPKFI PPSLELNTIDL 780
QY 774 LEDTPRCRICGGLAWYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVSL 833
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DB 781 LEDTPRCRICGGLAWYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVSL 840
QY 834 PKDLPDWDWRHGCIPQNMELFAVLCTIETSHYVAFVKYKDDSAWLPFSDMADRDRGQNG 893
DB 841 PKDLPDWDWRHGCIPQNMELFAVLCTIETSHYVAFVKYKDDSAWLPFSDMADRDRGQNG 900
QY 894 FNIPQVTPCPEVGEYLVKMSLEDLHSLDRRIGOCARRLLCDAYMCMYQSPFTMSLYK 949
DB 901 FNIPQVTPCPEVGEYLVKMSLEDLHSLDRRIGOCARRLLCDAYMCMYQSPFTMSLYK 956

RESULT 7
US-60-440-068-490
; Sequence 490, Application US/60440068
; GENERAL INFORMATION:
; APPLICANT: NADLER, STEVEN G.
; APPLICANT: CARWAN, JULIE
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE
; FILE REFERENCE: 3053-4191
; CURRENT APPLICATION NUMBER: US/60/440,068
; CURRENT FILING DATE: 2003-01-14
; NUMBER OF SEQ ID NOS: 746
; SOFTWARE: Patent in ver. 2.1
; SEQ ID NO 490
; LENGTH: 956
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-60-440-068-490

Query Match      98.8%; Score 4971.5; DB 33; Length 956;
Best Local Similarity 99.2%; Pred. No. 0;
Matches 948; Conservative 0; Mismatches 1; Indels 7; Gaps 5;

QY 1 MSSGLWSQEKVTSPYWEERIFYLLQECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60
DB 1 MSSGLWSQEKVTSPYWEERIFYLLQECSTVDKQTKLLKVPKSGISQYIQDRSVGHSRI 60
QY 61 PSAGKKNQIGLKILEQPHAVLFVDE-DVVEINEKFTELLAITNCEERFSLFKNRNLS 119
DB 61 PSAGKKNQIGLKILEQPHAVLFVDEKDVWEINEKFTELLAITNCEERFSLFKNRNLS 120
QY 120 KGLQIDVGCVPKVLQRSGEEKFPGVVRFRGPLLAERTVSGIFFGVVELLEEGRGOGFTDGV 179
DB 121 KGLQIDVGCVPKVLQRSGEEKFPGVVRFRGPLLAERTVSGIFFGVVELLEEGRGOGFTDGV 180
QY 180 YQGKQLFQCDDEDCG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLNRSVLSKG 238
DB 181 YQGKQLFQCDDEDCGVFVALDKLELIEDDDTALESYAGPGDTMQVELPPLNRSVLSKV 240
QY 239 GETTESGTVIFCDVLPKESLGIFVGVDMNDPNI GNWDRGFDGV-LCSFACVESTILLHN 297
DB 241 GETTESGTVIFCDVLPKESLGIFVGVDMNDPNI GNWDRGFDGVLCFACVESTILLHN 300
QY 298 DIIP--ESVTQERRPPKLA FMSRGVGDGKSSSHNKPATGSTSDPGRN-RSELYFTLNG 353
DB 301 DIIPALSESVTQERRPPKLA FMSRGVGDGKSSSHNKPATGSTSDPGRNRSSELFTLNG 360
QY 354 SSVDSQPSQSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTENRPHSLP 413
DB 361 SSVDSQPSQSKNTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTENRPHSLP 420
QY 414 FSLTKMPTNGSIGHSPLSLSAQSVMBELNTPAQESPPPLAMPNGSHGLEVGSLAEVKE 473
DB 421 FSLTKMPTNGSIGHSPLSLSAQSVMBELNTPAQESPPPLAMPNGSHGLEVGSLAEVKE 480
QY 474 NPFFYGVIRWIGQPPGLNEVLAGELEDEACAGTGTGTRGTYFTCALKKALFVKLSKR 533
DB 481 NPFFYGVIRWIGQPPGLNEVLAGELEDEACAGTGTGTRGTYFTCALKKALFVKLSKR 540
QY 534 PDSRFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLEIMIGKKKGIQGHVNS 593
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Db 541 PDSRFASLQPVNSQIERCNSLAFGGVLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS 600  
 QY 594 CYLDSTLFCFLFAFSSVLDVLLRPKEKNDVEYVSETQELLRTIENVPLRIYGVCAATKIM 653  
 Db 601 CYLDSTLFCFLFAFSSVLDVLLRPKEKNDVEYVSETQELLRTIENVPLRIYGVCAATKIM 660  
 QY 654 KLRKILEKVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSAQKQVDCYFQIEME 713  
 Db 661 KLRKILEKVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSAQKQVDCYFQIEME 720  
 QY 714 KNEKVGVPPTIQOLLEWSFINSNLKFAEAPSCILIIQMPREGKDFKFKIFPSLELNITDL 773  
 Db 721 KNEKVGVPPTIQOLLEWSFINSNLKFAEAPSCILIIQMPREGKDFKFKIFPSLELNITDL 780  
 QY 774 LEDTPRQRCICGGLAMCYECREYDPPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVS 833  
 Db 781 LEDTPRQRCICGGLAMCYECREYDPPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVS 840  
 QY 834 PKDLPDWDRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLFEDSMADRGQNG 893  
 Db 841 PKDLPDWDRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLFEDSMADRGQNG 900  
 QY 894 FNIPOVTPCEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 949  
 Db 901 FNIPOVTPCEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 956

RESULT 8  
 US-60-469-757-490  
 ; Sequence 490, Application US/60469757  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bristol-Myers Squibb Company  
 ; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF-KB  
 ; FILE REFERENCE: D0284 PSP1  
 ; CURRENT APPLICATION NUMBER: US/60/469,757  
 ; CURRENT FILING DATE: 2003-05-12  
 ; NUMBER OF SEQ ID NOS: 823  
 ; SOFTWARE: PatentIn version 3.2  
 ; SEQ ID NO 490  
 ; LENGTH: 956  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-60-469-757-490

Query Match 98.8%; Score 4971.5; DB 33; Length 956;  
 Best Local Similarity 99.2%; Pred. No. 0;  
 Matches 948; Conservative 0; Mismatches 1; Indels 7; Gaps 5;  
 QY 1 MSSGLWSQSKVTSPLYWEERIFVLLIQECSTVTKQTKLLKVPKSGISQVQDRSVGHSHI 60  
 Db 1 MSSGLWSQSKVTSPLYWEERIFVLLIQECSTVTKQTKLLKVPKSGISQVQDRSVGHSHI 60  
 QY 61 PSAKGGKNGIQLKLEQPHAVLFVDE-DYVEINEKFTLELLAINTCEERFSLFKONRNL 119  
 Db 61 PSAKGGKNGIQLKLEQPHAVLFVDEKOVVEINEKFTLELLAINTCEERFSLFKONRNL 120  
 QY 120 KGLQIDVGCVPVKQLRSGBEKEPFGVVRFRGPLLAERTVSGIFPGVLELLEEGRGQGTG 179  
 Db 121 KGLQIDVGCVPVKQLRSGBEKEPFGVVRFRGPLLAERTVSGIFPGVLELLEEGRGQGTG 180  
 QY 180 YQKQQLQFCDEDCG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLPINSRVS 238  
 Db 181 YQKQQLQFCDEDCG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLPINSRVS 240  
 QY 239 GETIESGTIVICDVLPGKESLGYFVGVDMDNPIGNWDRFDGV-LCSFACVESTILLHIN 297  
 Db 241 GETIESGTIVICDVLPGKESLGYFVGVDMDNPIGNWDRFDGV-LCSFACVESTILLHIN 300  
 QY 298 DIIP---ESVTOERRPPKLAFLMSRGVGDGKSSSHNPKATGSTSDPQNR-RSELFYTLNG 353  
 Db 301 DIIPALSESVTQERRPPKLAFLMSRGVGDGKSSSHNPKATGSTSDPQNR-RSELFYTLNG 360

QY 354 SSVDSQPOSQSKNTWYIDVAVEDPAKSLTEISTDFDRSSPPLQPPPVNSLTENRRHSLP 413  
 Db 361 SSVDSQPOSQSKNTWYIDVAVEDPAKSLTEISTDFDRSSPPLQPPPVNSLTENRRHSLP 420  
 QY 414 FSLTKMPNTNGSIGHSPLSLSAQSVMEELNAPVQESPPPLAMPNGSHGLEVGSLEAVEKE 473  
 Db 421 FSLTKMPNTNGSIGHSPLSLSAQSVMEELNAPVQESPPPLAMPNGSHGLEVGSLEAVEKE 480  
 QY 474 NPPFVGIRWICQPPGLNEVLAGLEDEBACAGTGTGTFRGTRYFTTFCALKKALFVKLKS 533  
 Db 481 NPPFVGIRWICQPPGLNEVLAGLEDEBACAGTGTGTFRGTRYFTTFCALKKALFVKLKS 540  
 QY 534 PDSRFASLQPVNSQIERCNSLAFGGVLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS 593  
 Db 541 PDSRFASLQPVNSQIERCNSLAFGGVLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNS 600  
 QY 594 CYLDSTLFCFLFAFSSVLDVLLRPKEKNDVEYVSETQELLRTIENVPLRIYGVCAATKIM 653  
 Db 601 CYLDSTLFCFLFAFSSVLDVLLRPKEKNDVEYVSETQELLRTIENVPLRIYGVCAATKIM 660  
 QY 654 KLRKILEKVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSAQKQVDCYFQIEME 713  
 Db 661 KLRKILEKVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSAQKQVDCYFQIEME 720  
 QY 714 KNEKVGVPPTIQOLLEWSFINSNLKFAEAPSCILIIQMPREGKDFKFKIFPSLELNITDL 773  
 Db 721 KNEKVGVPPTIQOLLEWSFINSNLKFAEAPSCILIIQMPREGKDFKFKIFPSLELNITDL 780  
 QY 774 LEDTPRQRCICGGLAMCYECREYDPPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVS 833  
 Db 781 LEDTPRQRCICGGLAMCYECREYDPPDISAGKIKQFCCTCNTQVHLHPKRLNHNKYNPVS 840  
 QY 834 PKDLPDWDRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLFEDSMADRGQNG 893  
 Db 841 PKDLPDWDRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLFEDSMADRGQNG 900  
 QY 894 FNIPOVTPCEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 949  
 Db 901 FNIPOVTPCEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 956

RESULT 9  
 PCT-US01-01239-1743  
 ; Sequence 1743, Application PC/TUS0101239  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Human Genome Sciences, Inc., et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PTZ13PCT  
 ; CURRENT APPLICATION NUMBER: PCT/US01/01239  
 ; CURRENT FILING DATE: 2001-01-17  
 ; Prior application data removed - refer to PALM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 2318  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 1743  
 ; LENGTH: 739  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 PCT-US01-01239-1743

Query Match 77.0%; Score 3876.5; DB 1; Length 739;  
 Best Local Similarity 95.7%; Pred. No. 0;  
 Matches 736; Conservative 0; Mismatches 0; Indels 33; Gaps 4;  
 QY 184 QLFQCDDECG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLPINSRVS 242  
 Db 1 QLFQCDDECG-FVALDKLELIEDDDTALESYAGPGDTMQVELPPLPINSRVS 55  
 QY 243 ESGTVIFCDVLPKESLGYFVGVDMDNPIGNWDRFDGV-LCSFACVESTILLHIN 301  
 Db 56 -----DNPICGNWDRFDGV-LCSFACVESTILLHIN 90  
 QY 302 ESVTQERRPPKLAFLMSRGVGDGKSSSHNPKATGSTSDPQNR-RSELFYTLNGSSVD 360

Db 91 ESVTQERRPPKLA FMSRGVGDGSSSHNKP KATGTSDFGNRSELFTYTLNGSSVDSQP 150  
 Qy 361 QSKSKNTWYID EVAEDPAKSLTEISTDFDRSPPLQPPVNSLT TENRPHSLPFSLTQMP 420  
 Db 151 QSKSKNTWYID EVAEDPAKSLTEISTDFDRSPPLQPPVNSLT TENRPHSLPFSLTQMP 210  
 Qy 421 NTNGSIGHSPLSLSAQSVMEELNTAPVQES PPLAMP PGNHSHGLEVSLAEVKNPPFYGV 480  
 Db 211 NTNGSIGHSPLSLSAQSVMEELNTAPVQES PPLAMP PGNHSHGLEVSLAEVKNPPFYGV 270  
 Qy 481 IRWIGQPPGLNEVLAGLELEDEBACCTDGTFRGTRYFTCALKKALFVKLKSCRDPDRFAS 540  
 Db 271 IRWIGQPPGLNEVLAGLELEDEBACCTDGTFRGTRYFTCALKKALFVKLKSCRDPDRFAS 330  
 Qy 541 LQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 600  
 Db 331 LQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 390  
 Qy 601 FCLFAFSSVLTDLRLPKKNDVEYYSQELLRTETI VNPRLRIYGVYCATKIMKLKILE 660  
 Db 391 FCLFAFSSVLTDLRLPKKNDVEYYSQELLRTETI VNPRLRIYGVYCATKIMKLKILE 450  
 Qy 661 KVEAASGFTSEBKDPPEEFNLILFHHILRVEPL LKIRSAGQKQVDCYFYQIFMEKNEKVG 720  
 Db 451 KVEAASGFTSEBKDPPEEFNLILFHHILRVEPL LKIRSAGQKQVDCYFYQIFMEKNEKVG 510  
 Qy 721 PTIQOLLEWSFINSNLKFAEAPSCLIIQMPRFGKDFKFKI FPSLELNTDLEDTPRQ 780  
 Db 511 PTIQOLLEWSFINSNLKFAEAPSCLIIQMPRFGKDFKFKI FPSLELNTDLEDTPRQ 570  
 Qy 781 CRICGGLAMYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDW 840  
 Db 571 CRICGGLAMYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDW 630  
 Qy 841 DWRHGCIPQNMELFAVLICITSHYVAFVKYKGD SAMLFFDSMADRDGGQNGFNIPQVT 900  
 Db 631 DWRHGCIPQNMELFAVLICITSHYVAFVKYKGD SAMLFFDSMADRDGGQNGFNIPQVT 690  
 Qy 901 PCPEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCMYQSP TMSLYK 949  
 Db 691 PCPEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCMYQSP TMSLYK 739

RESULT 10

US-09-764-902-1743  
 ; Sequence 1743, Application US/09764902  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rosen et al.  
 ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies  
 ; FILE REFERENCE: PT213  
 ; CURRENT APPLICATION NUMBER: US/09/764,902  
 ; CURRENT FILING DATE: 2001-01-17  
 ; Prior application data removed - refer to PALM or file wrapper  
 ; NUMBER OF SEQ ID NOS: 2318  
 ; SOFTWARE: PatentIn Ver. 2.0  
 ; SEQ ID NO 1743  
 ; LENGTH: 739  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-764-902-1743

Query Match 77.0%; Score 3876.5; DB 22; Length 739;  
 Best Local Similarity 95.7%; Pred. No. 0;  
 Matches 736; Conservative 0; Mismatches 0; Indels 33; Gaps 4;

Qy 184 QLFQCDDECG-FVALDKLEIEDDDTALESYAGDGTWQVELPPLPINSRVSLKGGGTI 242  
 Db 1 QLFQCDDECGFVALDKLEIEDDDTALESYAGDGTWQVELPPLPINSRVSLK----- 55  
 Qy 243 ESGTVIFCDVLPFGKESLYGVFGVDMNPIGNWGRFDGV-LCSFACVESTILLHINDIIP 301  
 Db 56 -----DNPIGNWGRFDGVQLCSFACVESTILLHINDIIP 90

RESULT 11

US-09-786-797B-9  
 ; Sequence 9, Application US/09786797B  
 ; GENERAL INFORMATION:  
 ; APPLICANT: INCYTE PHARMACEUTICALS, INC.  
 ; APPLICANT: LAL, Preeti  
 ; APPLICANT: TANG, Y. Tom  
 ; APPLICANT: YUE, Henry  
 ; APPLICANT: HILLMAN, Jennifer L.  
 ; APPLICANT: BANDMAN, Olga  
 ; APPLICANT: CORLEY, Neil C.  
 ; APPLICANT: GUEGLER, Karl J.  
 ; APPLICANT: PATTERSON, Chandra  
 ; APPLICANT: AZIMZAI, Yalda  
 ; APPLICANT: BAUGHN, Mariah R.  
 ; TITLE OF INVENTION: HUMAN CYTOSKELETON ASSOCIATED PROTEINS  
 ; FILE REFERENCE: PF-0594 PCT  
 ; CURRENT APPLICATION NUMBER: US/09/786,797B  
 ; CURRENT FILING DATE: 2002-08-26  
 ; PRIOR APPLICATION NUMBER: 09/156,470; unassigned; 60/131,321  
 ; PRIOR FILING DATE: 1998-09-18; 1998-09-18; 1999-04-27  
 ; NUMBER OF SEQ ID NOS: 32  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 9  
 ; LENGTH: 731  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:

Qy 302 ESVTQERRPPKLA FMSRGVGDGSSSHNKP KATGTSDFGNR-RSELFYTLNGSSVDSQP 360  
 Db 91 ESVTQERRPPKLA FMSRGVGDGSSSHNKP KATGTSDFGNRNRSELFYTLNGSSVDSQP 150  
 Qy 361 QSKSKNTWYID EVAEDPAKSLTEISTDFDRSPPLQPPVNSLT TENRPHSLPFSLTQMP 420  
 Db 151 QSKSKNTWYID EVAEDPAKSLTEISTDFDRSPPLQPPVNSLT TENRPHSLPFSLTQMP 210  
 Qy 421 NTNGSIGHSPLSLSAQSVMEELNTAPVQES PPLAMP PGNHSHGLEVSLAEVKNPPFYGV 480  
 Db 211 NTNGSIGHSPLSLSAQSVMEELNTAPVQES PPLAMP PGNHSHGLEVSLAEVKNPPFYGV 270  
 Qy 481 IRWIGQPPGLNEVLAGLELEDEBACCTDGTFRGTRYFTCALKKALFVKLKSCRDPDRFAS 540  
 Db 271 IRWIGQPPGLNEVLAGLELEDEBACCTDGTFRGTRYFTCALKKALFVKLKSCRDPDRFAS 330  
 Qy 541 LQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 600  
 Db 331 LQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTL 390  
 Qy 601 FCLFAFSSVLTDLRLPKKNDVEYYSQELLRTETI VNPRLRIYGVYCATKIMKLKILE 660  
 Db 391 FCLFAFSSVLTDLRLPKKNDVEYYSQELLRTETI VNPRLRIYGVYCATKIMKLKILE 450  
 Qy 661 KVEAASGFTSEBKDPPEEFNLILFHHILRVEPL LKIRSAGQKQVDCYFYQIFMEKNEKVG 720  
 Db 451 KVEAASGFTSEBKDPPEEFNLILFHHILRVEPL LKIRSAGQKQVDCYFYQIFMEKNEKVG 510  
 Qy 721 PTIQOLLEWSFINSNLKFAEAPSCLIIQMPRFGKDFKFKI FPSLELNTDLEDTPRQ 780  
 Db 511 PTIQOLLEWSFINSNLKFAEAPSCLIIQMPRFGKDFKFKI FPSLELNTDLEDTPRQ 570  
 Qy 781 CRICGGLAMYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDW 840  
 Db 571 CRICGGLAMYECRECYDDPDISAGKIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDW 630  
 Qy 841 DWRHGCIPQNMELFAVLICITSHYVAFVKYKGD SAMLFFDSMADRDGGQNGFNIPQVT 900  
 Db 631 DWRHGCIPQNMELFAVLICITSHYVAFVKYKGD SAMLFFDSMADRDGGQNGFNIPQVT 690  
 Qy 901 PCPEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCMYQSP TMSLYK 949  
 Db 691 PCPEVGEYVKMSLEDLHSLDSRRIOGCARRLLCDAYMCMYQSP TMSLYK 739



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; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No: 2363327
US-09-786-797B-9

Query Match      76.7%; Score 3862; DB 22; Length 731;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 221 MQVELPPELEINRSVSLKGETIESGTIVFCVDLPKESLGYPGVDMNDNPIGNWDRFGD 280
DB 1 MQVELPPELEINRSVSLKGETIESGTIVFCVDLPKESLGYPGVDMNDNPIGNWDRFGD 60

QY 281 V-LCSFACVESTILLHINDIIPESVTQERRPPKLAFLMSRGVGDGKSSSHNKPATGSTSD 339
DB 61 VOLCSFACVESTILLHINDIIPESVTQERRPPKLAFLMSRGVGDGKSSSHNKPATGSTSD 120

QY 340 PGNR-RSELFTYTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPLQPP 398
DB 121 PGNRSELFTYTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPLQPP 180

QY 399 PVSNTTNRHSLPFLSLTKMPTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPPG 458
DB 181 PVSNTTNRHSLPFLSLTKMPTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPPG 240

QY 459 NSHGLEVGSLAEVKENPPYGVIRWIGQPPGLNEVLAGLEDEBACAGCTDGTFRGTRYFT 518
DB 241 NSHGLEVGSLAEVKENPPYGVIRWIGQPPGLNEVLAGLEDEBACAGCTDGTFRGTRYFT 300

QY 519 CALKKALFVKLKSRCRPSDFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLE 578
DB 301 CALKKALFVKLKSRCRPSDFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLE 360

QY 579 IMGKKGQGHYNSCYLSDTLFCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTIIV 638
DB 361 IMGKKGQGHYNSCYLSDTLFCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTIIV 420

QY 639 NPLRIYGVYCATKIMKRLKILEKVEAASGFTSEEDKPEEFNLIFHHILRVEPLLKIRSA 698
DB 421 NPLRIYGVYCATKIMKRLKILEKVEAASGFTSEEDKPEEFNLIFHHILRVEPLLKIRSA 480

QY 699 GOKVQDCYFYQIFMEKNEKVGVPVPTIQOLLEWSPFINSNLKFAEAPSCLIIQMPRFGKDFKL 758
DB 481 GOKVQDCYFYQIFMEKNEKVGVPVPTIQOLLEWSPFINSNLKFAEAPSCLIIQMPRFGKDFKL 540

QY 879 LFFDSMADRDGGONGFNIPOVTPCPVEGVYKMSLEDLHLSRRITQGCARRLLCDAYMC 938
DB 661 LFFDSMADRDGGONGFNIPOVTPCPVEGVYKMSLEDLHLSRRITQGCARRLLCDAYMC 720

QY 939 MYQSPTMSLYK 949
DB 721 MYQSPTMSLYK 731

RESULT 12
US-60-131-321-7
; Sequence 7, Application US/60131321
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Lal, Preeti
; APPLICANT: Yue, Henry
; APPLICANT: Hillman, Jennifer L.
; APPLICANT: Bandman, Olga
; APPLICANT: Azimzai, Yalda
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: HUMAN CYTOSKELETAL PROTEINS

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; FILE REFERENCE: PF-0692 P
; CURRENT APPLICATION NUMBER: US/60/131,321
; CURRENT FILING DATE: 1999-04-27
; NUMBER OF SEQ ID NOS: 28
; SOFTWARE: PERL Program
; SEQ ID NO 7
; LENGTH: 731
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE: -
; OTHER INFORMATION: 2363327
US-60-131-321-7

Query Match      76.7%; Score 3862; DB 33; Length 731;
Best Local Similarity 99.6%; Pred. No. 0;
Matches 728; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 221 MQVELPPELEINRSVSLKGETIESGTIVFCVDLPKESLGYPGVDMNDNPIGNWDRFGD 280
DB 1 MQVELPPELEINRSVSLKGETIESGTIVFCVDLPKESLGYPGVDMNDNPIGNWDRFGD 60

QY 281 V-LCSFACVESTILLHINDIIPESVTQERRPPKLAFLMSRGVGDGKSSSHNKPATGSTSD 339
DB 61 VOLCSFACVESTILLHINDIIPESVTQERRPPKLAFLMSRGVGDGKSSSHNKPATGSTSD 120

QY 340 PGNR-RSELFTYTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPLQPP 398
DB 121 PGNRSELFTYTLNGSSVDSQPSKSKNTWYIDEVAEDPAKSLTEISTDFDRSSPLQPP 180

QY 399 PVSNTTNRHSLPFLSLTKMPTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPPG 458
DB 181 PVSNTTNRHSLPFLSLTKMPTNGSIGHSPLSLSAQSVMEELNTPVQESPLAMPPG 240

QY 459 NSHGLEVGSLAEVKENPPYGVIRWIGQPPGLNEVLAGLEDEBACAGCTDGTFRGTRYFT 518
DB 241 NSHGLEVGSLAEVKENPPYGVIRWIGQPPGLNEVLAGLEDEBACAGCTDGTFRGTRYFT 300

QY 519 CALKKALFVKLKSRCRPSDFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLE 578
DB 301 CALKKALFVKLKSRCRPSDFASLQPVSNQIERCNSLAFGGYLSVVVEENTPPKMEKEGLE 360

QY 579 IMGKKGQGHYNSCYLSDTLFCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTIIV 638
DB 361 IMGKKGQGHYNSCYLSDTLFCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTIIV 420

QY 639 NPLRIYGVYCATKIMKRLKILEKVEAASGFTSEEDKPEEFNLIFHHILRVEPLLKIRSA 698
DB 421 NPLRIYGVYCATKIMKRLKILEKVEAASGFTSEEDKPEEFNLIFHHILRVEPLLKIRSA 480

QY 699 GOKVQDCYFYQIFMEKNEKVGVPVPTIQOLLEWSPFINSNLKFAEAPSCLIIQMPRFGKDFKL 758
DB 481 GOKVQDCYFYQIFMEKNEKVGVPVPTIQOLLEWSPFINSNLKFAEAPSCLIIQMPRFGKDFKL 540

QY 879 LFFDSMADRDGGONGFNIPOVTPCPVEGVYKMSLEDLHLSRRITQGCARRLLCDAYMC 938
DB 661 LFFDSMADRDGGONGFNIPOVTPCPVEGVYKMSLEDLHLSRRITQGCARRLLCDAYMC 720

QY 939 MYQSPTMSLYK 949
DB 721 MYQSPTMSLYK 731

RESULT 13
US-09-629-469A-18843
; Sequence 18843, Application US/09629469A

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; GENERAL INFORMATION:
; APPLICANT: OTA, TOSHIO
; APPLICANT: ISOGAI, TAKAO
; APPLICANT: NISHIKAWA, TETSUO
; APPLICANT: HAYASHI, KOJI
; APPLICANT: SAITO, KAORU
; APPLICANT: YAMAMOTO, JUNICHI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: WAKAMATSU, AI
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: OTSUKI, TETSUJI
; TITLE OF INVENTION: PRIMERS FOR SYNTHESIZING FULL-LENGTH CDNA AND THEIR USE
; FILE REFERENCE: 084335/0123
; CURRENT APPLICATION NUMBER: US/09/629,469A
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: JP 1999-248036
; PRIOR FILING DATE: 1999-07-29
; PRIOR APPLICATION NUMBER: JP 1999-300253
; PRIOR FILING DATE: 1999-08-27
; PRIOR APPLICATION NUMBER: JP 2000-118776
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: JP 2000-183767
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: JP 2000-241899
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/159,590
; PRIOR FILING DATE: 1999-10-18
; PRIOR APPLICATION NUMBER: 60/183,322
; PRIOR FILING DATE: 2000-02-17
; NUMBER OF SEQ ID NOS: 19025
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 18843
; LENGTH: 731
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-629-469A-18843

Query Match          76.6%; Score 3855; DB 20; Length 731;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 727; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

QY 221 MOVLPPLPINSRVSLKGETIEGTVIFCDVLPKESLGYFVGVDMNDPIGNWDRPDG 280
DB 1 MOVLPPLPINSRVSLKGETIEGTVIFCDVLPKESLGYFVGVDMNDPIGNWDRPDG 60

QY 281 V-LCSFACVESTILLHNDIIPESVTQERRPPKLAFFMSRGVGDGSSSHNKPATGSTD 339
DB 61 VOLCSFACVESTILLHNDIIPESVTQERRPPKLAFFMSRGVGDGSSSHNKPATGSTD 120

QY 340 PGNR-RSELFTYTLNGSSVDSQPSKNTWTYIDEVAEDPAKSLTEISTDFDRSSPPLQPP 398
DB 121 PGNRRSELFTYTLNGSSVDSQPSKNTWTYIDEVAEDPAKSLTEISTDFDRSSPPLQPP 180

QY 399 PVNSLTATTENRPHSLPFLSLTKMPNTNGSIHSPSLSAQSVMEELNTAPVQESPPLAMP 458
DB 181 PVNSLTATTENRPHSLPFLSLTKMPNTNGSIHSPSLSAQSVMEELNTAPVQESPPLAMP 240

QY 459 NSHGLEVGSIAEVKENPPFYVIRWIGQPPGLNEVLAGELEDEDCAGCTDGTFRGTRYFT 518
DB 241 NSHGLEVGSIAEVKENPPFYVIRWIGQPPGLNEVLAGELEDEDCAGCTDGTFRGTRYFT 300

QY 519 CALKKALFVKLKSRRPSRSLASLOVNOIERCNSLAFGGYLSVVEENTPPKMEKSGLE 578
DB 301 CALKKALFVKLKSRRPSRSLASLOVNOIERCNSLAFGGYLSVVEENTPPKMEKSGLE 360

QY 579 IMIGKKGIQGHYNSCYLDSTFLCLFAFSSVLDVTLRLPKENVDVEYSETQELLRTYIV 638
DB 361 IMIGKKGIQGHYNSCYLDSTFLCLFAFSSVLDVTLRLPKENVDVEYSETQELLRTYIV 420

QY 639 NPLRIYGVCAATKIMLRKILKEVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSA 698
DB 421 NPLRIYGVCAATKIMLRKILKEVEAASGFTSEKDPPEFLNLFHILRVEPLLKIRSA 480

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QY 699 GQKVQDCYFYQIFMEKNEKVGVTPTIQOLLEWSFINSNLKFAEAPSCLIITQMPRFGKDFKL 758
DB 481 GQKVQDCYFYQIFMEKNEKVGVTPTIQOLLEWSFINSNLKFAEAPSCLIITQMPRFGKDFKL 540

QY 759 FKIFPPSLELNITDLLEDTPRQCRICGGLAMVECECYDDPDISAGKIQKFCCKTQVH 818
DB 541 FKIFPPSLELNITDLLEDTPRQCRICGGLAMVECECYDDPDISAGKIQKFCCKTQVH 600

QY 819 LHPKRLNHKNYPVSLPKDLPDMDWRHGCIPOQNMELFAVLCIETSHYVAFVYKGDSDSAW 878
DB 601 LHPKRLNHKNYPVSLPKDLPDMDWRHGCIPOQNMELFAVLCIETSHYVAFVYKGDSDSAW 660

QY 879 LFFDSMADRGGQNGFNIPQVTPCPEVGEYLKMSLEDLHLSRRITQGCARRLLCDAYMC 938
DB 661 LFFDSMADRGGQNGFNIPQVTPCPEVGEYLKMSLEDLHLSRRITQGCARRLLCDAYMC 720

QY 939 MYQSPMTSLYK 949
DB 721 MYQSPMTSLYK 731

RESULT 14
US-09-488-725A-2399
; Sequence 2399, Application US/09488725A
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: Novel Nucleic Acid and Polypeptides
; FILE REFERENCE: 784FLPCT
; CURRENT APPLICATION NUMBER: US/09/488,725A
; CURRENT FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US/09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US09/598,042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US09/653,450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US09/662,191
; PRIOR FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: US09/693,036
; PRIOR FILING DATE: 2000-10-19
; PRIOR APPLICATION NUMBER: US09/727,344
; PRIOR FILING DATE: 2000-11-29
; NUMBER OF SEQ ID NOS: 7144
; SOFTWARE: pt FL_genes_b Versions 1.0
; SEQ ID NO 2399
; LENGTH: 686
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-488-725A-2399

Query Match          72.2%; Score 3636; DB 18; Length 685;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 683; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

QY 267 MDNPIGNWDRFDGV-LCSFACVESTILLHNDIIPESVTQERRPPKLAFFMSRGVGDGKS 325
DB 1 MDNPIGNWDRFDGV-LCSFACVESTILLHNDIIPESVTQERRPPKLAFFMSRGVGDGKS 60

QY 326 SSHNKPATGSTDPCNR-RSELFTYTLNGSSVDSQPSKNTWTYIDEVAEDPAKSLTEI 384
DB 61 SSHNKPATGSTDPCNR-RSELFTYTLNGSSVDSQPSKNTWTYIDEVAEDPAKSLTEI 120

QY 385 STDFDRSSPPLQPPPVNSLTATTENRPHSLPFLSLTKMPNTNGSIHSPSLSAQSVMEELNT 444
DB 121 STDFDRSSPPLQPPPVNSLTATTENRPHSLPFLSLTKMPNTNGSIHSPSLSAQSVMEELNT 180

QY 445 APVQESPPLAMPNGSHGLEVGSIAEVKENPPFYVIRWIGQPPGLNEVLAGELEDECA 504
DB 445 APVQESPPLAMPNGSHGLEVGSIAEVKENPPFYVIRWIGQPPGLNEVLAGELEDECA 504

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Db 181 APVQSPPLAMPNGSHGLEVCSLAEVKENPPFYGVIRWIGOPPGNEVLAGELEDECA 240
Qy 505 GCTDGTFRGTRFTYFTCALKKALFVKLSCRPDSRFASLQPVSNQIERCNSLAFGGYLSEVV 564
Db 241 GCTDGTFRGTRFTYFTCALKKALFVKLSCRPDSRFASLQPVSNQIERCNSLAFGGYLSEVV 300
Qy 565 BENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTLFCFLFAFSSVLDTVLLRPKEKNDVE 624
Db 301 BENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTLFCFLFAFSSVLDTVLLRPKEKNDVE 360
Qy 625 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 684
Db 361 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 420
Qy 685 HILRVEPLLKIRSAQKQVQDCYFYQIFMEKNEKVGVPVPTIQQLLEWFFINSNLFKFAEAPSC 744
Db 421 HILRVEPLLKIRSAQKQVQDCYFYQIFMEKNEKVGVPVPTIQQLLEWFFINSNLFKFAEAPSC 480
Qy 745 LIIQMPRFGKDFKLFKKIPPSLELNIITDLEDTPRQCRIQCGGLAMYTECRECYDDPDISAG 804
Db 481 LIIQMPRFGKDFKLFKKIPPSLELNIITDLEDTPRQCRIQCGGLAMYTECRECYDDPDISAG 540
Qy 805 KIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDMDWRHGCIPQNMELFAVLCIETSH 864
Db 541 KIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDMDWRHGCIPQNMELFAVLCIETSH 600
Qy 865 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 924
Db 601 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 660
Qy 925 QGCARRLLCDAYMCYQSPMTSLYK 949
Db 661 QGCARRLLCDAYMCYQSPMTSLYK 685
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## RESULT 15

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US-10-258-898A-2399
; Sequence 2399, Application US/10258898A
; GENERAL INFORMATION:
; APPLICANT: Hyseq Inc
; TITLE OF INVENTION: Novel Nucleic Acid and Polypeptides
; FILE REFERENCE: 784FLPCT
; CURRENT APPLICATION NUMBER: US/10/258,898A
; PRIOR FILING DATE: 2002-10-29
; PRIOR APPLICATION NUMBER: US/09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US09/598,042
; PRIOR FILING DATE: 2000-06-20
; PRIOR APPLICATION NUMBER: US09/620,312
; PRIOR FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: US09/653,450
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: US09/662,191
; PRIOR FILING DATE: 2000-09-14
; PRIOR APPLICATION NUMBER: US09/693,036
; PRIOR FILING DATE: 2000-10-19
; PRIOR APPLICATION NUMBER: US09/727,344
; PRIOR FILING DATE: 2000-11-29
; NUMBER OF SEQ ID NOS: 7143
; SOFTWARE: pt_FL_genes_b Versions 1.0
; SEQ ID NO 2399
; LENGTH: 685
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-258-898A-2399
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Query Match 72.2%; Score 3636; DB 28; Length 685;  
Best Local Similarity 99.7%; Pred. No. 0;  
Matches 683; Conservative 0; Mismatches 0; Indels 2; Gaps 2;

Qy 267 MDNPIGNWDRFDGV-LCSFACVESTILLHINDIIPESVTQERRPPKLAFMRSRGVDKGS 325

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Db 1 MDNPIGNWDRFDGV-LCSFACVESTILLHINDIIPESVTQERRPPKLAFMRSRGVDKGS 60
Qy 326 SSHNPKATGSTDPCGNR-RSELFYFTLNGSSVDSPQSKSKNTWYIDEVAEDPAKSLTEI 384
Db 61 SSHNPKATGSTDPCGNRNRSELFYFTLNGSSVDSPQSKSKNTWYIDEVAEDPAKSLTEI 120
Qy 385 STDFDRSSPPLQPPVNSLTNTNRPHSLPFSLTQMPNTNGSIGHSPLSLSAQSVMBELNT 444
Db 121 STDFDRSSPPLQPPVNSLTNTNRPHSLPFSLTQMPNTNGSIGHSPLSLSAQSVMBELNT 180
Qy 445 APVQSPPLAMPNGSHGLEVCSLAEVKENPPFYGVIRWIGOPPGNEVLAGELEDECA 504
Db 181 APVQSPPLAMPNGSHGLEVCSLAEVKENPPFYGVIRWIGOPPGNEVLAGELEDECA 240
Qy 505 GCTDGTFRGTRFTYFTCALKKALFVKLSCRPDSRFASLQPVSNQIERCNSLAFGGYLSEVV 564
Db 241 GCTDGTFRGTRFTYFTCALKKALFVKLSCRPDSRFASLQPVSNQIERCNSLAFGGYLSEVV 300
Qy 565 BENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTLFCFLFAFSSVLDTVLLRPKEKNDVE 624
Db 301 BENTPPKMEKEGLEIMIGKKGIQGHYNSCYLDSTLFCFLFAFSSVLDTVLLRPKEKNDVE 360
Qy 625 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 684
Db 361 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 420
Qy 685 HILRVEPLLKIRSAQKQVQDCYFYQIFMEKNEKVGVPVPTIQQLLEWFFINSNLFKFAEAPSC 744
Db 421 HILRVEPLLKIRSAQKQVQDCYFYQIFMEKNEKVGVPVPTIQQLLEWFFINSNLFKFAEAPSC 480
Qy 745 LIIQMPRFGKDFKLFKKIPPSLELNIITDLEDTPRQCRIQCGGLAMYTECRECYDDPDISAG 804
Db 481 LIIQMPRFGKDFKLFKKIPPSLELNIITDLEDTPRQCRIQCGGLAMYTECRECYDDPDISAG 540
Qy 805 KIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDMDWRHGCIPQNMELFAVLCIETSH 864
Db 541 KIKQFCKTQNTQVHLHPKRLNHNKYNPVS LPKDLPDMDWRHGCIPQNMELFAVLCIETSH 600
Qy 865 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 924
Db 601 YVAFVKYKDDSAWLFDDSMADRDGGQNGFNIPQVTPCPCEVGEYLYKMSLEDLHSLDSRRI 660
Qy 925 QGCARRLLCDAYMCYQSPMTSLYK 949
Db 661 QGCARRLLCDAYMCYQSPMTSLYK 685
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Search completed: April 28, 2004, 10:17:24

Job time : 193 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 28, 2004, 10:11:54 ; Search time 20 Seconds  
(without alignments)  
1419.223 Million cell updates/sec

Title: US-09-671-687A-3  
Perfect score: 5034  
Sequence: 1 MSSGLMSQEKVTSFYWEERI.....RLLCDAYMCYQSTMSLYK 949

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 210896 seqs, 29909863 residues

Total number of hits satisfying chosen parameters: 210896

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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3: /cgn2\_6/ptodata/1/paa/US07\_NEW\_COMB.pep.\*  
4: /cgn2\_6/ptodata/1/paa/US08\_NEW\_COMB.pep.\*  
5: /cgn2\_6/ptodata/1/paa/US09\_NEW\_COMB.pep.\*  
6: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*  
7: /cgn2\_6/ptodata/1/paa/US60\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4983	99.0	960	1	PCT-US04-07268-250
2	4983	99.0	960	6	US-10-788-792-250
3	134.5	2.7	1247	6	US-10-290-752-230
4	122.5	2.4	907	6	US-10-491-213-8
5	120	2.4	499	6	US-10-451-467A-154
6	116	2.3	1235	6	US-10-416-330-39
7	115.5	2.3	903	6	US-10-489-740-145
8	115.5	2.3	903	6	US-10-821-801-777
9	114.5	2.3	1161	5	US-09-716-964B-118
10	114.5	2.3	1161	6	US-10-671-106-118
11	111.5	2.2	1004	1	PCT-US04-07412-1100
12	111.5	2.2	1032	1	PCT-US04-07412-1099
13	111	2.2	111	1	PCT-US04-09202-1137
14	110.5	2.2	2404	1	PCT-US04-07412-866
15	110	2.2	4913	6	US-10-453-372-1142
16	110	2.2	4961	6	US-10-453-372-1132
17	109.5	2.2	1304	6	US-10-489-740-157
18	109.5	2.2	1304	6	US-10-821-234-1648
19	109	2.2	520	1	PCT-US03-36229-165
20	108.5	2.2	494	6	US-10-821-801-752
21	108	2.1	355	6	US-10-784-480-240
22	108	2.1	874	5	US-09-979-167-161
23	108	2.1	3500	1	PCT-US03-37356-2
24	108	2.1	3537	1	PCT-US03-37356-15
25	107.5	2.1	460	1	PCT-US04-05654-2362
26	106.5	2.1	1092	1	PCT-US04-09202-338

27	106.5	2.1	1847	6	US-10-489-372-3	Sequence 3, Appli
28	106	2.1	1288	6	US-10-453-372-1152	Sequence 1152, Ap
29	106	2.1	1536	7	US-60-556-841-10921	Sequence 10921, A
30	105.5	2.1	491	6	US-10-695-499-191	Sequence 191, App
31	105.5	2.1	1475	6	US-10-767-471-1200	Sequence 1200, Ap
32	105.5	2.1	1475	6	US-10-767-471-1201	Sequence 1201, Ap
33	105.5	2.1	1475	6	US-10-767-471-1202	Sequence 1202, Ap
34	105.5	2.1	6306	1	PCT-US04-09049-5	Sequence 5, Appli
35	105	2.1	533	1	PCT-US03-36229-163	Sequence 163, App
36	104.5	2.1	370	1	PCT-US04-07626-53	Sequence 53, Appl
37	104.5	2.1	914	1	PCT-US04-02188-112	Sequence 112, App
38	104.5	2.1	914	6	US-10-764-425-112	Sequence 112, App
39	104.5	2.1	2468	6	US-10-489-740-216	Sequence 216, App
40	104.5	2.1	2468	7	US-60-556-903-230	Sequence 230, App
41	104.5	2.1	4870	1	PCT-US04-02188-144	Sequence 144, App
42	104.5	2.1	4870	6	US-10-764-425-144	Sequence 144, App
43	104	2.1	791	6	US-10-417-884A-6065	Sequence 6065, Ap
44	104	2.1	1905	1	PCT-US04-09388-9	Sequence 9, Appli
45	103.5	2.1	931	1	PCT-US03-15011-61	Sequence 61, Appl

ALIGNMENTS

RESULT 1  
PCT-US04-07268-250  
; Sequence 250, Application PC/TUS0407268  
; GENERAL INFORMATION:  
; APPLICANT: Bayer Pharmaceuticals Corporation  
; APPLICANT: Eveleigh, Deepa  
; APPLICANT: Bigwood, Douglas  
; FILE OF INVENTION: EXPRESSION PROFILES FOR BREAST CANCER AND METHODS OF USE  
; FILE REFERENCE: 5152  
; CURRENT APPLICATION NUMBER: PCT/US04/07268  
; CURRENT FILING DATE: 2004-02-27  
; PRIOR APPLICATION NUMBER: US 60/450,655  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 254  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 250  
; LENGTH: 960  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US04-07268-250

Query Match		99.0%;	Score 4983;	DB 1;	Length 960;
Best Local Similarity		99.5%;	Pred. No. 0;		
Matches 948;		Conservative 0;	Mismatches 1;	Indels 4;	Gaps 4;
Qy	1	MSSGLMSQEKVTSFYWEERI	FYLLQEC	SVTDKQTKLLKVPKGSIGQY	IQDRSVGHSRI 60
Db	8	MSSGLMSQEKVTSFYWEERI	FYLLQEC	SVTDKQTKLLKVPKGSIGQY	IQDRSVGHSRI 67
Qy	61	PSAKGKNQIGLKILEQPHAVL	FVDE	-DVVEINEKTELLLAITNCEERFSLFKNRLS	119
Db	68	PSAKGKNQIGLKILEQPHAVL	FVDE	KDVEINEKTELLLAITNCEERFSLFKNRLS	127
Qy	120	KGLQIDVCCPVKQVLRSGEEK	PPGVVR	RGPLLAERTVSGIFPGVELLEBGRGQGT	DGV 179
Db	128	KGLQIDVCCPVKQVLRSGEEK	PPGVVR	RGPLLAERTVSGIFPGVELLEBGRGQGT	DGV 187
Qy	180	YQGKQLFOCDDECG	-FVALDKLEL	DDDTALESYAGGDTMQVLPPLPINSRVSLKG	238
Db	188	YQGKQLFOCDDECG	VFVALDKLEL	DDDTALESYAGGDTMQVLPPLPINSRVSLKV	247
Qy	239	GETIESGTIVIFCDVLPKESLG	YFVGVDM	DNPIGNWGRFDGV-LCSFACVESTILLHN	297
Db	248	GETIESGTIVIFCDVLPKESLG	YFVGVDM	DNPIGNWGRFDGV-LCSFACVESTILLHN	307
Qy	298	DIIPESVTOERRPPKLA	FMGRGVG	KGSSHNKPKATGTS	DPGNR-RSELFYTLNGSSV 356
Db	308	DIIPESVTOERRPPKLA	FMGRGVG	KGSSHNKPKATGTS	DPGNR-RSELFYTLNGSSV 367

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QY 357 DSQOSKSNWTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTITENRPHSLPFSL 416
Db 368 DSQOSKSNWTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTITENRPHSLPFSL 427
QY 417 TKMPNTNGSIGHSPLSLSAQSVMEELNTAPVQESPPPLAMPNGSHGLEVGSIAEAVKENPP 476
Db 428 TKMPNTNGSIGHSPLSLSAQSVMEELNTAPVQESPPPLAMPNGSHGLEVGSIAEAVKENPP 487
QY 477 FYGVIRWIQPPGLNEVLAGLEDEACAGTGTGTFRGTRYFTCAKKAFLFKLSKCRPDS 536
Db 488 FYGVIRWIQPPGLNEVLAGLEDEACAGTGTGTFRGTRYFTCAKKAFLFKLSKCRPDS 547
QY 537 RFASLQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKKGIQGHYNSCYL 596
Db 548 RFASLQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKKGIQGHYNSCYL 607
QY 597 DSTLCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETINPLRIYGVVCATKIMKLR 656
Db 608 DSTLCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETINPLRIYGVVCATKIMKLR 667
QY 657 KILEKVEAASGFTSBKDEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 716
Db 668 KILEKVEAASGFTSBKDEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 727
QY 717 KVGVPITQOLLEWSFINSNLKFAEAPSLIIOQMPRGKDFKLFKIFPFSLELNITDLED 776
Db 728 KVGVPITQOLLEWSFINSNLKFAEAPSLIIOQMPRGKDFKLFKIFPFSLELNITDLED 787
QY 777 TPRQCRICGLAMYECCYDDPDISAGKIKQFCKTCNTQVHLHPKRLNHNKYNPVSPLPKD 836
Db 788 TPRQCRICGLAMYECCYDDPDISAGKIKQFCKTCNTQVHLHPKRLNHNKYNPVSPLPKD 847
QY 837 LPDWDWRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNI 896
Db 848 LPDWDWRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNI 907
QY 897 PQVTPCPEVGEYLKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 949
Db 908 PQVTPCPEVGEYLKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 960

RESULT 2
US-10-788-792-250
; Sequence 250, Application US/10788792
; GENERAL INFORMATION:
; APPLICANT: Bayer Pharmaceuticals Corporation
; APPLICANT: Eveleigh, Deepa
; APPLICANT: Bigwood, Douglas
; TITLE OF INVENTION: EXPRESSION PROFILES FOR BREAST CANCER AND METHODS OF USE
; FILE REFERENCE: 5152
; CURRENT FILING DATE: 2004-02-27
; PRIOR APPLICATION NUMBER: US/10/788,792
; PRIOR FILING DATE: 2003-02-28
; NUMBER OF SEQ ID NOS: 254
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 250
; LENGTH: 960
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-788-792-250

Query Match 99.0%; Score 4983; DB 6; Length 960;
Best Local Similarity 99.5%; Pred. No. 0;
Matches 948; Conservative 0; Mismatches 1; Indels 4; Gaps 4;

QY 1 MSSGLWSQEKVTSPLYWEERIFVLLQECSTVDKOTOKLLKVPKSGIQVQDRSVGHSRI 60
Db 8 MSSGLWSQEKVTSPLYWEERIFVLLQECSTVDKOTOKLLKVPKSGIQVQDRSVGHSRI 67
QY 61 PSAKGNKQIGLKLEQPHAVLFVDE-DVVEINEKFTELLAITNCEERFSLFKONRRLS 119
Db 68 PSAKGNKQIGLKLEQPHAVLFVDEKDVVEINEKFTELLAITNCEERFSLFKONRRLS 127
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QY 120 KGLQIDVGCVPKVKQIURSGBEKFPGVVVRFRGPLLAERTVSGIFFGVLLBEGROGFTDGV 179
Db 128 KGLQIDVGCVPKVKQIURSGBEKFPGVVVRFRGPLLAERTVSGIFFGVLLBEGROGFTDGV 187
QY 180 YOGKQOLFQDEDCG-FVALDKLELTEDDDTALESYDAGPDTMOVELPPLLEINSRVS LKG 238
Db 188 YOGKQOLFQDEDCG-FVALDKLELTEDDDTALESYDAGPDTMOVELPPLLEINSRVS LKV 247
QY 239 GTTIESGTVIFCDVLPKESLGVFVGVDMDNPIGNWMDGRFDGV-LCSFACVESTILLIHIN 297
Db 248 GTTIESGTVIFCDVLPKESLGVFVGVDMDNPIGNWMDGRFDGV-LCSFACVESTILLIHIN 307
QY 298 DIIIPESVTQERRPPKLAFMRSRGVGDGKSSSHNKPATGSTSDPGNR-RSELFTYTLANGSSV 356
Db 308 DIIIPESVTQERRPPKLAFMRSRGVGDGKSSSHNKPATGSTSDPGNRNRSLSFTYTLANGSSV 367
QY 357 DSQOSKSNWTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTITENRPHSLPFSL 416
Db 368 DSQOSKSNWTWYIDEVAEDPAKSLTEISTDFDRSSPPLQPPVNSLTITENRPHSLPFSL 427
QY 417 TKMPNTNGSIGHSPLSLSAQSVMEELNTAPVQESPPPLAMPNGSHGLEVGSIAEAVKENPP 476
Db 428 TKMPNTNGSIGHSPLSLSAQSVMEELNTAPVQESPPPLAMPNGSHGLEVGSIAEAVKENPP 487
QY 477 FYGVIRWIQPPGLNEVLAGLEDEACAGTGTGTFRGTRYFTCAKKAFLFKLSKCRPDS 536
Db 488 FYGVIRWIQPPGLNEVLAGLEDEACAGTGTGTFRGTRYFTCAKKAFLFKLSKCRPDS 547
QY 537 RFASLQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKKGIQGHYNSCYL 596
Db 548 RFASLQPVSNQIERCNSLAFGGYLSVVEENTPPKMEKEGLEIMIGKKKGIQGHYNSCYL 607
QY 597 DSTLCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETINPLRIYGVVCATKIMKLR 656
Db 608 DSTLCLFAFSSVLDTVLLRPKEKNDVEYSETQELLRTETINPLRIYGVVCATKIMKLR 667
QY 657 KILEKVEAASGFTSBKDEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 716
Db 668 KILEKVEAASGFTSBKDEEFLNLFHILRVEPLLKIRSAGQKQVDCYFYQIFMEKNE 727
QY 717 KVGVPITQOLLEWSFINSNLKFAEAPSLIIOQMPRGKDFKLFKIFPFSLELNITDLED 776
Db 728 KVGVPITQOLLEWSFINSNLKFAEAPSLIIOQMPRGKDFKLFKIFPFSLELNITDLED 787
QY 777 TPRQCRICGLAMYECCYDDPDISAGKIKQFCKTCNTQVHLHPKRLNHNKYNPVSPLPKD 836
Db 788 TPRQCRICGLAMYECCYDDPDISAGKIKQFCKTCNTQVHLHPKRLNHNKYNPVSPLPKD 847
QY 837 LPDWDWRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNI 896
Db 848 LPDWDWRHGCIPCONMELFAVLCIETSHYVAFVKYKDDSAWLPFDSMADRDGGQNGFNI 907
QY 897 PQVTPCPEVGEYLKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 949
Db 908 PQVTPCPEVGEYLKMSLEDLHSLDSRRIOGCARRLLCDAYMCYQSPMTSLYK 960

RESULT 3
US-10-290-752-230
; Sequence 230, Application US/10290752
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 788CIP4
; CURRENT APPLICATION NUMBER: US/10/290,752
; CURRENT FILING DATE: 2002-11-08
; PRIOR APPLICATION NUMBER: PCT/US01/04926
; PRIOR FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: 09/664,641
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 09/616,807
; PRIOR FILING DATE: 2000-07-14
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[illegible]



QY 87 DVVINEKTELLLAITNC-----ERFSLFK----- 113  
Db 127 IDYELLEKYEGGLIALTACLGKGVPTYYASINEVKAEEWVKFKDFDGDLYLELQANNI 186  
QY 114 -----NRN--RLSKGLQIDVGCVPKQVLRSGEEKFPGVVRPGPLLAERTVSGIFPGVE 165  
Db 187 PEQEVANRLBIAKYDVKLATQDAHYLNPEDRYAHTVLM--ALQMKKTIHELSSG-- 242  
QY 166 LLEEGRGQFTDGVYQKOLFQD-DEDCGF-----VALDKLELIED 205  
Db 243 -----NFKCSNEDLHFAPEYMWKKEGKFEKGEKALLNTLEVMEK 283  
QY 206 DDTALE-----SDYAGPDTMQVELPP-----LEINRSVSLKG-GETIESGTV----- 247  
Db 284 TADSEIFENSTYLLP-----KYDVPDKTLEEYRLAYKGLRQRIERGQAKDTKEYWER 339  
QY 248 --IFCDVLPGKESLGYFVGVD-----MDNPIGNWDRFGDVLCSFACVESTILLHIN 297  
Db 340 LEYELVINKMGFAGYFLIVQDFINWAKNDIPVPGRGSGAGSLVAYA-----IGIT 392  
QY 298 DI-----IPESVT-----QERRPPKLAFMRSRGVDKGS--SHNKP 332  
Db 393 DVDPIKHGFLERFLNPERVSPDDIDVDFQDNREKVIYVRNKYGHNDVAQIITYNMK 452  
QY 333 ATGSTSDPNRRSELYTLNGSSVDSQPOSKSNWTY--IDEVAEDPAKSLT-----EISTD 387  
Db 453 AKQTLRDVA-RAMGLPYSTADKLAKLIPQDVGQVTLSEEMKYTPVEELLQKGEHRTD 511  
QY 388 FD-----RSSPPLQPPVNSLTNRHSLPFLTKMPTNGS-----IGHSPLS-- 432  
Db 512 IEDNVKFRQICEESPEIKQVETALKLE-----GLTRHTSLHAAGVVIAPKPLSEL 563  
QY 433 -----LSAQSVMEELNTPVQESPLAMPP-----GNSHGLEVGS LAEV 471

QY 87 DVVINEKTELLLAITNC-----ERFSLFK----- 113  
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QY 114 -----NRN--RLSKGLQIDVGCVPKQVLRSGEEKFPGVVRPGPLLAERTVSGIFPGVE 165  
Db 187 PEQEVANRLBIAKYDVKLATQDAHYLNPEDRYAHTVLM--ALQMKKTIHELSSG-- 242  
QY 166 LLEEGRGQFTDGVYQKOLFQD-DEDCGF-----VALDKLELIED 205  
Db 243 -----NFKCSNEDLHFAPEYMWKKEGKFEKGEKALLNTLEVMEK 283  
QY 206 DDTALE-----SDYAGPDTMQVELPP-----LEINRSVSLKG-GETIESGTV----- 247  
Db 284 TADSEIFENSTYLLP-----KYDVPDKTLEEYRLAYKGLRQRIERGQAKDTKEYWER 339  
QY 248 --IFCDVLPGKESLGYFVGVD-----MDNPIGNWDRFGDVLCSFACVESTILLHIN 297  
Db 340 LEYELVINKMGFAGYFLIVQDFINWAKNDIPVPGRGSGAGSLVAYA-----IGIT 392  
QY 298 DI-----IPESVT-----QERRPPKLAFMRSRGVDKGS--SHNKP 332  
Db 393 DVDPIKHGFLERFLNPERVSPDDIDVDFQDNREKVIYVRNKYGHNDVAQIITYNMK 452  
QY 333 ATGSTSDPNRRSELYTLNGSSVDSQPOSKSNWTY--IDEVAEDPAKSLT-----EISTD 387  
Db 453 AKQTLRDVA-RAMGLPYSTADKLAKLIPQDVGQVTLSEEMKYTPVEELLQKGEHRTD 511  
QY 388 FD-----RSSPPLQPPVNSLTNRHSLPFLTKMPTNGS-----IGHSPLS-- 432  
Db 512 IEDNVKFRQICEESPEIKQVETALKLE-----GLTRHTSLHAAGVVIAPKPLSEL 563  
QY 433 -----LSAQSVMEELNTPVQESPLAMPP-----GNSHGLEVGS LAEV 471

RESULT 10  
US-10-671-106-118  
; Sequence 118, Application US/10671106  
; GENERAL INFORMATION:  
; APPLICANT: O'Donnell, Michael E.  
; APPLICANT: Yuzhakov, Alexander  
; APPLICANT: Yurieva, Olga  
; APPLICANT: Jeruzalmi, David  
; APPLICANT: Bruck, Irina  
; APPLICANT: Kuriyan, John  
; TITLE OF INVENTION: ENZYMES DERIVED FROM THERMOPHILIC ORGANISMS THAT  
; FUNCTION AS A CHROMOSOMAL REPLICASE, PREPARATION AND  
; TITLE OF INVENTION: USE THEREOF  
; FILE REFERENCE: 22221/1030  
; CURRENT APPLICATION NUMBER: US/10/671,106  
; PRIOR FILING DATE: 2003-09-25  
; PRIOR APPLICATION NUMBER: US/09/716,964B  
; PRIOR FILING DATE: 2000-11-21  
; PRIOR APPLICATION NUMBER: 60/143,202  
; PRIOR FILING DATE: 1997-04-08  
; PRIOR APPLICATION NUMBER: 08/823,407  
; PRIOR FILING DATE: 1997-04-08  
; PRIOR APPLICATION NUMBER: 09/057,416  
; PRIOR FILING DATE: 1998-04-08  
; NUMBER OF SEQ ID NOS: 212  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 118  
; LENGTH: 1161  
; TYPE: PRT  
; ORGANISM: Aquifex aeolicus  
US-10-671-106-118

Query Match 2.3%; Score 114.5; DB 6; Length 1161;  
Best Local Similarity 17.7%; Pred. No. 5.7; Indels 461; Gaps 48;  
Matches 193; Conservative 125;

QY 27 EGSVTDKQTKLLKVPKSGISQVQDRSVGHSRIPSAKGNQIGLKILEOPHAFVDE 86  
Db 85 EDNITDKYNNHLLIATAKDD-----KGLKNMLKSLTAYKEGFFYKPR 126  
QY 87 DVVINEKTELLLAITNC-----ERFSLFK----- 113  
Db 127 IDYELLEKYEGGLIALTACLGKGVPTYYASINEVKAEEWVKFKDFDGDLYLELQANNI 186  
QY 114 -----NRN--RLSKGLQIDVGCVPKQVLRSGEEKFPGVVRPGPLLAERTVSGIFPGVE 165  
Db 187 PEQEVANRLBIAKYDVKLATQDAHYLNPEDRYAHTVLM--ALQMKKTIHELSSG-- 242  
QY 166 LLEEGRGQFTDGVYQKOLFQD-DEDCGF-----VALDKLELIED 205  
Db 243 -----NFKCSNEDLHFAPEYMWKKEGKFEKGEKALLNTLEVMEK 283  
QY 206 DDTALE-----SDYAGPDTMQVELPP-----LEINRSVSLKG-GETIESGTV----- 247  
Db 284 TADSEIFENSTYLLP-----KYDVPDKTLEEYRLAYKGLRQRIERGQAKDTKEYWER 339  
QY 248 --IFCDVLPGKESLGYFVGVD-----MDNPIGNWDRFGDVLCSFACVESTILLHIN 297  
Db 340 LEYELVINKMGFAGYFLIVQDFINWAKNDIPVPGRGSGAGSLVAYA-----IGIT 392  
QY 298 DI-----IPESVT-----QERRPPKLAFMRSRGVDKGS--SHNKP 332  
Db 393 DVDPIKHGFLERFLNPERVSPDDIDVDFQDNREKVIYVRNKYGHNDVAQIITYNMK 452  
QY 333 ATGSTSDPNRRSELYTLNGSSVDSQPOSKSNWTY--IDEVAEDPAKSLT-----EISTD 387  
Db 453 AKQTLRDVA-RAMGLPYSTADKLAKLIPQDVGQVTLSEEMKYTPVEELLQKGEHRTD 511  
QY 388 FD-----RSSPPLQPPVNSLTNRHSLPFLTKMPTNGS-----IGHSPLS-- 432  
Db 512 IEDNVKFRQICEESPEIKQVETALKLE-----GLTRHTSLHAAGVVIAPKPLSEL 563  
QY 433 -----LSAQSVMEELNTPVQESPLAMPP-----GNSHGLEVGS LAEV 471



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Db 564 VPLYDKEGEVATQYDMVQEEELGLKMDFLGLKLTTELKMLKELIKERHGVDFINFLP 623
Qy 472 KENPPFVGIVRWIQPPCLNEVLAGLEDEACAGCTDGT-----RGTRYFTCALKKALFV 527
Db 624 LDDPKVYKLLQ-----EGKTTGVFQLESKGMKEL-----652
Qy 528 KLASCRDPSFASLOPVSNQIERCNSLAFGGYLSVEVEENTPPKMEKEGLEIMIGKKGI 587
Db 653 -LKKLKPD-----660
Qy 588 QHYNCSYLDSTLFCLEAF-----SSVLDITVLLRPKEKNDVEY-YSETQELLRLTEIWP 640
Db 661 -----FDDIVAVLALYRPGPLKSLGLVDYIYKKGKGEVEYPPPELEPLVK-----706
Qy 641 LRIYG-YVCATKIMKRLKILEKVEAASGFTSEKD-----PBEFLNIL 682
Db 707 -ETYGVIYQEVQMKMSQL-----SGFTPGEADTLRLKAIKKKADLMAQMKDKFIQ--757
Qy 683 FHILRVEPLKTRSAQKVQD-----CYFYQIFMEKNEKVGVPITIOQLLEWS 730
Db 758 -GAVERGYPEEKIRKLWEDIEKFASYSFNKSHSVAYGISYWTAYVKAHYPAEFVAVKLT 816
Qy 731 FINSNLFAEAPSLIIQMPRFQKDKLFK-KIFPSLELNTDLEDTPROCRICGGLA-788
Db 817 TEKDNKFLN-----LI-----KDAKLFGEIPLP-DINKSDVGFTIEGSRIRFGLAR 864
Qy 789 -----MYBECRCYDD-----PDISAGKIKQ 808
Db 865 IKGVEETAKIIVKARKKYQFKGLADPINKTKRINKKVKVEALVKAQAFDFTKKRKE 924
Qy 809 -FKTCNTQVHL-----HP-----KRLNHY 828
Db 925 LLAKVANSEKALMATONSLFGAPKEVEELDPLKLEKVLGYISGHPLDNYEKLKURY 984
Qy 829 NPVSLPKDLPDWD 841
Db 985 TPI---EDLEWD 994
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## RESULT 11

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PCT-US04-07412-1100
; Sequence 1100, Application PC/TUS0407412
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Wang, Jian-rui
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Ghosh, Malabika
; APPLICANT: Xue, Aidong J.
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Dunrui
; APPLICANT: Goodrich, Ryle W.
; APPLICANT: Chen, Rui-hong
; APPLICANT: Wehrman, Tom
; APPLICANT: Weng, Gezhi
; APPLICANT: Boyle, Bryan J.
; APPLICANT: Drmanac, Radoje T.
; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
; FILE REFERENCE: 822CIP/PT
; CURRENT APPLICATION NUMBER: PCT/US04/07412
; CURRENT FILING DATE: 2004-03-19
; PRIOR APPLICATION NUMBER: US 10/389,559
; PRIOR FILING DATE: 2003-03-14
; PRIOR APPLICATION NUMBER: US 60/365,264
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: US 60/340,187
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 10/296,115
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## RESULT 12

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PCT-US04-07412-1099
; Sequence 1099, Application PC/TUS0407412
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Wang, Jian-rui
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunqing
; APPLICANT: Ghosh, Malabika
; APPLICANT: Xue, Aidong J.
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wang, Dunrui
; APPLICANT: Goodrich, Ryle W.
; APPLICANT: Chen, Rui-hong
; APPLICANT: Wehrman, Tom
; APPLICANT: Weng, Gezhi
; APPLICANT: Boyle, Bryan J.
; APPLICANT: Drmanac, Radoje T.
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; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: PCT/US00/35017
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: US 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: US 09/488,725
; PRIOR FILING DATE: 2000-01-21
; PRIOR APPLICATION NUMBER: US 10/275,027
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: PCT/US01/02623
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: US 09/491,404
; PRIOR FILING DATE: 2000-01-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1920
; SOFTWARE: pt FL_genes Version 6.0
; SEQ ID NO 1100
; LENGTH: 1004
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US04-07412-1100
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Query Match 2.2%; Score 111.5; DB 1; Length 1004;
Best Local Similarity 22.1%; Pred No. 7.7;
Matches 67; Conservative 39; Mismatches 100; Indels 97; Gaps 15;
Qy 212 SDYAGPGTQMVLPPLPPLNSRVLSKGGETIES-----GTVIFCDVLPKESLGYFVG 264
Db 228 SYHSPGSGTATTHFPD-----SSTTSGRSEESTASHSSQDATGTI-----VLPARSTTSVLLG 280
Qy 265 VMDNPIGNWDRFDGVLCSPACVESTILLHINDIIPESVTQERRPPKLAFMRSRGVDKG 324
Db 281 ESTTSP-----SSGSMETTAL-----PGSTT-----TPGLSEKS 310
Qy 325 SSSHNKPKATGSTDPCGNRSELFTYLANGSSVDSPQSKSKNTWYIDEVAEDPAKSLTEI 384
Db 311 TTFHSSPRSPATTLSPASTTSS---GVSEESTTSHSRPGSTHTTAPPDSTTTTP--GLSQE 365
Qy 385 STDFRDRSP-----PLOPPPVNSLT---TENRFHSLPFS---LTKMPNTNGSIG-----427
Db 366 STT-SHSPSGSTDALTALSPGTTALSFGQESTTFHSPGSTHTTLPDSTTSSGIVEASTR 424
Qy 428 H-----SPLSLSAQSVMEELN-----TAPVQESPPLAMP 457
Db 425 VHSSTGSPRTTLPASSTSPGLQGSTAFQTHPASTHTTTPSPSTATAPEESTTYHRSP 484
Qy 458 GNS 460
Db 485 GST 487
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Db 794 -----TTWLKKTAELEMLKWAQPPS-----DIQEIELRVKQLQELIKAFDITYKALVSVN 844  
 Qy 568 -----TPPKWEKEG-----LEIMIGKKGIQGHYNSCYLDSTLFLFAFSSVLDTV 613  
 Db 845 VSSKEFLQTESPESTELQSLRQLSLLWEAAQGAVDSWRGGRLQSLMQCQ--DFHQLSQNL 903  
 Qy 614 LL-----RPKEKNDVEYSETQELLRTTEINPLRIYGYCATKIMLKRLKILEKVEAS 666  
 Db 904 LLWLASAKNRQKAHVDPKADPALLL-----CRRELMLQLEKEL----- 943  
 Qy 667 GFTSEKDPBEFLNLFHILRVBPLLKIRSAGQKQVQCYFQIPMEKNEKGV--PTIQ 724  
 Db 944 ----VERQPQVDM-----LQEIENSLLIKHG--EDC-----IEABEKHVIEKLIK 984  
 Qy 725 QLE 728  
 Db 985 QLRE 988

# RESULT 14

PCT-US04-07412-866  
 ; Sequence 866, Application PC/TUS0407412  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Tang, Y. Tom  
 ; APPLICANT: Wang, Jian-rui  
 ; APPLICANT: Zhang, Jie  
 ; APPLICANT: Ren, Feiyan  
 ; APPLICANT: Zhou, Ping  
 ; APPLICANT: Ma, Yungqing  
 ; APPLICANT: Ghosh, Malabika  
 ; APPLICANT: Xue, Aidong J.  
 ; APPLICANT: Asundi, Vinod  
 ; APPLICANT: Zhao, Qing A.  
 ; APPLICANT: Wang, Dunrui  
 ; APPLICANT: Goodrich, Ryle W.  
 ; APPLICANT: Chen, Rui-hong  
 ; APPLICANT: Wehrman, Tom  
 ; APPLICANT: Weng, Gezhi  
 ; APPLICANT: Wang, Zhiwei  
 ; APPLICANT: Boyle, Bryan J.  
 ; APPLICANT: Drmanac, Radoje T.  
 ; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides  
 ; FILE REFERENCE: 822CIP/PCT  
 ; CURRENT APPLICATION NUMBER: PCT/US04/07412  
 ; CURRENT FILING DATE: 2004-03-19  
 ; PRIOR APPLICATION NUMBER: US 10/389,559  
 ; PRIOR FILING DATE: 2003-03-14  
 ; PRIOR APPLICATION NUMBER: US 60/365,264  
 ; PRIOR FILING DATE: 2002-03-14  
 ; PRIOR APPLICATION NUMBER: US 60/340,187  
 ; PRIOR FILING DATE: 2001-12-12  
 ; PRIOR APPLICATION NUMBER: US 10/296,115  
 ; PRIOR FILING DATE: 2000-12-22  
 ; PRIOR APPLICATION NUMBER: PCT/US00/35017  
 ; PRIOR FILING DATE: 2000-12-22  
 ; PRIOR APPLICATION NUMBER: US 09/552,317  
 ; PRIOR FILING DATE: 2000-04-25  
 ; PRIOR APPLICATION NUMBER: US 09/488,725  
 ; PRIOR FILING DATE: 2000-01-21  
 ; PRIOR APPLICATION NUMBER: US 10/275,027  
 ; PRIOR FILING DATE: 2001-01-25  
 ; PRIOR APPLICATION NUMBER: PCT/US01/02623  
 ; PRIOR FILING DATE: 2001-01-25  
 ; PRIOR APPLICATION NUMBER: US 09/491,404  
 ; PRIOR FILING DATE: 2000-01-25  
 ; Remaining Prior Application data removed - See File Wrapper or PALM.  
 ; NUMBER OF SEQ ID NOS: 1920  
 ; SOFTWARE: PT\_FL\_genes Version 6.0  
 ; SEQ ID NO 866  
 ; LENGTH: 2404  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens

PCT-US04-07412-866  
 Query Match 2.2%; Score 110.5; DB 1; Length 2404;  
 Best Local Similarity 19.3%; Pred. No. 34;  
 Matches 134; Conservative 100; Mismatches 264; Indels 197; Gaps 33;  
 Qy 352 NGSSVDSQPSQSKN-TW--YIDEVAEDPAKSLTEIST-----DF----- 388  
 Db 1633 SGKDIHEQNTKEKDLSEHLFAPKEIPYSEDFEVSSFKKISAEIYKDDFEVSSLLSL 1692  
 Qy 389 --DRSSPPLQPPVNSLT--ENRPHS---LPESLTMPNTNGSIGHSPLSLSAQSVMEEL 442  
 Db 1693 RKDSQSCDKQPMRSSTSGATSGFSGNEISCLSEKSLSIHNSVHSDRLLELKSITELM 1752  
 Qy 443 NT-----APVQESPPLAMPP--GNSHGLEVGLAEVKNENPPYGVIRWITQPPGLN 491  
 Db 1753 KSKERSDVEHEQVTEPSPSLASVPTADELFDPHIGDRLVIGNVQ--GILRFKGETSFAK 1810  
 Qy 492 EVLAGLELEDECACTDGTFRGTRFYTCALKKALFY-----KSKSC 532  
 Db 1811 GFWAGVEL--DKPEGNNGTYDGIAYFECKEKGIFAPPOKISHIPENFDYDVIDNEDEC 1869  
 Qy 533 RPDSPFASLQPVSNQIERC-----NSLAFGGYLVSEVBEENTPPKMEKEGLEI 579  
 Db 1870 YSDERYQCYNOEQNDTEGPKREKDVSEFYFKSLPSVNDIEASVNRSLKIETDNVQD 1929  
 Qy 580 MIGKKKGIQGH--YNSCYLDSTL-----FCLFAFSSVLDTVLLRPKEKNDV 623  
 Db 1930 ISGV---LEAHVHQSSVDSQISSKENKDLISDATEKVSIAEDDITLNTFSELEKQ-- 1984  
 Qy 624 EYSETQELLRTTEINPLRIYGYCATKIMLKRLKILEKVEA--ASGFTSEKDPD--EFL 679  
 Db 1985 QQFTEEDNLYAEASEKL-----CTPLLDLITREKNQLEAQLKSSLNEBKSKQOLEKI 2038  
 Qy 680 NILFHILR-----VEPLLKIRSAGQKQVQCYFQIPMEKNEKGVPTIQLE----- 728  
 Db 2039 SLLTSLLLKVFVKDTVNLQQLIKTRDEKIQISNQLLGGDDQKVKTPQDLSONVEQSPS 2098  
 Qy 729 --WSFINSNL-----KFAEAPSCLIQMPRFQK--DFKLKFIKFFPSELEINITLLEDTPR 779  
 Db 2099 ISGCFLSSELEDEKEEISSPDMCPPEPSPVFASGQEEELAKRL--AELELSREFL----- 2151  
 Qy 780 QCRIGGLAMYECRECYD--DPDISAGKIQKQCTKNTQVHL--HPKRLNHNKYNVPSLPKD 836  
 Db 2152 -----SALGDQDDWDFEDFGLSSSHKIQKNKAETIVPLMAEPKRVQ-- 2195  
 Qy 837 LPDWDWRHGCIPCQNMELFAVLCTETSHYAFVKYKDDSAWLFPDSDMADRGQNGFNI 896  
 Db 2196 -----PCET--LLAV--PHTABEVEILVHNAAEELMKW----- 2224  
 Qy 897 PQVTPCEVGEVYKMSLEDLHSLD--SRIOGCARR 930  
 Db 2225 -----KELG-----HDLHSISIPTKILGCASK 2246  
 RESULT 15  
 US-10-453-372-1142  
 ; Sequence 1142, Application US/10453372  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Alsobrook, et al.  
 ; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHODS  
 ; FILE REFERENCE: 21402-589 A  
 ; CURRENT APPLICATION NUMBER: US/10/453,372  
 ; CURRENT FILING DATE: 2003-06-03  
 ; PRIOR APPLICATION NUMBER: 09/789390  
 ; PRIOR FILING DATE: 2001-02-23  
 ; PRIOR APPLICATION NUMBER: 60/185967  
 ; PRIOR FILING DATE: 2000-03-01  
 ; PRIOR APPLICATION NUMBER: 09/823187  
 ; PRIOR FILING DATE: 2001-03-29  
 ; PRIOR APPLICATION NUMBER: 60/195792  
 ; PRIOR FILING DATE: 2000-03-10  
 ; PRIOR APPLICATION NUMBER: 09/839446

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; PRIOR FILING DATE: 2001-03-19
; PRIOR APPLICATION NUMBER: 60/199476
; PRIOR FILING DATE: 2000-03-25
; PRIOR APPLICATION NUMBER: 09/863776
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: 60/208263
; PRIOR FILING DATE: 2000-05-31
; PRIOR APPLICATION NUMBER: 09/939398
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: 60/227800
; PRIOR FILING DATE: 2000-08-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 1609
; SOFTWARE: CuraseqList version 0.1
; SEQ ID NO 1142
; LENGTH: 4913
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-453-372-1142

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Query Match      2.2%; Score 110; DB 6; Length 4913;
Best Local Similarity 18.1%; Pred. No. 1.1e+02;
Matches 176; Conservative 130; Mismatches 332; Indels 334; Gaps 43;

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QY 32 DKQOKLLKVPKGSIGQYIQ-----DRSVGSHRIPSAKKNQIGLKILEQPHAVLFVDE 86
Db 1914 DIETQKTLQKINESRSWFFERINKIDRPL--ARLKKKTEKNQIDA-----IKN 1960
QY 87 DVVNEKEFTELLAITN-CEERFSLFKNRRLSKGLQIDVCPVKQVLSGEEKFPGVV 145
Db 1961 DKGDITIDPTEIQTIREYCKHLYA-----KNLENEMDKFLDYTLRLNQEEVESLN 2015
QY 146 RPRGPLLAERTVSGIFFGVLEEGRGQGTGVQKOLFQCEDECGFVALDKLELIED 205
Db 2016 R---PITDSEVA-IINSLPTKSPGPGDFTAEFYQ-----MITTPVFAQALYKVEINEN 2066
QY 206 DDTALE--SDYAGPGD---TMQVELPPLLEINRSVLSKGGTIE-----SGTVIPCDVL 253
Db 2067 TLTGTDIIQVFAADGDEGTNGV-----RYGIVNGTNOEFRIDSVTGAITVAKPL 2117
QY 254 PKESLGYFVGVDN-----DNPIGNWDGDFGVLCSFACVESTILLHINDIIPESVTOERR 309
Db 2118 DREKPTVHLTVQATDRGTP-----RTD-----TSTVSIVLLDINDFVP----- 2157
QY 310 PPKLAFMSRGVGDKGSSSHNKKATGS-----TSDPGRN---RSELYFT----- 350
Db 2158 -----VFELSPYSVNVFENLGLTLPRTILOASPCVRFASAKAYFTTIPEDAPTG 2207
QY 351 -----LNGSSVDSQPOS-----KSKNTWYIDEVAE 375
Db 2208 TDVLLVNASDADASKNAVISYRIIGNSQFTINPSTGQIITSALLDRETKDNYTLVVVCS 2267
QY 376 D-----PAKSLTEI---STDPRSSPPLQPPP-VNSLTTEHRPHSLPFLTKMPTNGSI 426
Db 2268 DAGSPEPLSSSTSVLTVTDVHDNPPRFQHPHVTHIPSPFTLPFSFVFVAVTV---TDADI 2324
QY 427 GHSPLSLSAQSVMEELNATPVQESPLAMPNGNSHGLEVGSIAEVKENPPFYGVIRWIGQ 486
Db 2325 G-----PNSLHYSLSGRNSEKPHIDPLRGAINAAGP 2356
QY 487 PPGLENEVLAGELEDECAGCTDGTFRGTRYFTCALK---KALFVKLSCRPDSRFSASLOP 543
Db 2357 LNGASEVTSVHVKD-----GGSFPTDSTTVTVRFVNKAQDPKVRAKEQTFMFPENQP 2410
QY 544 VSN-----QIERCNSLAF----- 556
Db 2411 VSSLVTITIGSSLRGPMYSYIASGNLNTFQIDQLTGQVSISQPLDFEIKIQYVVWIEA 2470
QY 557 --GG-----YLSVVEENTPPKMEKEGLEI-MIGKKX 585
Db 2471 RDGFPFPFSSYEKLDITVLDVNDNAPIFKEDPFISEILNLSPRKI-----LTVSAMDKDS 2526
QY 586 GIQGHYNSCYLDSTLFLCLFAFSVLDTV-LLRPKEKNDVEYYSETQELLRTIENVPLRIY 644

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Search completed: April 28, 2004, 10:17:56  
Job time : 23 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: April 28, 2004, 10:07:39 ; Search time 23 Seconds  
(without alignments)  
2130.132 Million cell updates/sec

Title: US-09-671-687A-3  
Perfect score: 5034  
Sequence: 1 MSSGLWSQKVTSPYWBRI.....RLLCDAYMCWQSPMSLYK 949

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA.\*  
1: /cgn2\_6/ptodata/2/iaa/5A\_COMB.pep.\*  
2: /cgn2\_6/ptodata/2/iaa/5B\_COMB.pep.\*  
3: /cgn2\_6/ptodata/2/iaa/6A\_COMB.pep.\*  
4: /cgn2\_6/ptodata/2/iaa/6B\_COMB.pep.\*  
5: /cgn2\_6/ptodata/2/iaa/PCTUS\_COMB.pep.\*  
6: /cgn2\_6/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	125.5	2.5	1469	4	US-09-262-537-58
2	118.5	2.4	1466	4	US-09-262-537-20
3	118.5	2.4	1471	4	US-08-811-519-1
4	118	2.3	267	4	US-09-399-913-57
5	117	2.3	798	2	US-08-222-617A-8
6	113	2.2	1226	1	US-08-280-443-2
7	113	2.2	1226	1	US-08-457-459-2
8	113	2.2	1226	1	US-08-555-678-2
9	113	2.2	1226	5	PCT-US95-02275-2
10	112.5	2.2	493	3	US-08-999-774A-12
11	112	2.2	734	4	US-09-328-352-4412
12	110.5	2.2	657	3	US-09-370-368-7
13	109.5	2.2	1306	3	US-08-999-774A-13
14	109	2.2	452	4	US-09-205-258-689
15	108	2.1	533	4	US-08-216-592A-4
16	108	2.1	665	4	US-09-328-352-6983
17	107.5	2.1	659	4	US-09-562-737-18
18	107.5	2.1	1477	4	US-09-206-942-71
19	107.5	2.1	2616	6	5206163-3
20	106.5	2.1	696	3	US-07-757-342D-4
21	106.5	2.1	696	4	US-09-461-657B-4
22	105.5	2.1	1848	3	US-08-296-791-6
23	105.5	2.1	1848	4	US-09-833-996-6
24	105.5	2.1	1848	4	US-10-080-505-6
25	105.5	2.1	1848	5	PCT-US95-10661A-6
26	105	2.1	533	1	US-07-952-800-2
27	105	2.1	1645	4	US-09-976-594-769

28	104.5	2.1	589	4	US-09-489-039A-9182	Sequence 9182, Ap
29	104.5	2.1	2468	4	US-09-976-594-726	Sequence 726, App
30	104	2.1	444	3	US-09-243-374-5	Sequence 5, Appli
31	104	2.1	444	4	US-09-000-062-3	Sequence 3, Appli
32	104	2.1	444	4	US-08-945-144A-3	Sequence 3, Appli
33	104	2.1	791	4	US-09-107-532A-6065	Sequence 6065, Ap
34	104	2.1	846	3	US-08-885-291-55	Sequence 2, Appli
35	104	2.1	846	3	US-09-107-847-2	Sequence 55, Appli
36	104	2.1	846	3	US-09-496-672-55	Sequence 2, Appli
37	104	2.1	855	2	US-08-816-693A-2	Sequence 2, Appli
38	104	2.1	855	3	US-08-885-291-2	Sequence 2, Appli
39	104	2.1	855	3	US-09-496-672-2	Sequence 2, Appli
40	104	2.1	855	4	US-09-618-425-11	Sequence 11, Appli
41	104	2.1	926	1	US-08-159-340A-2	Sequence 2, Appli
42	103.5	2.1	2037	3	US-09-306-998-3	Sequence 3, Appli
43	103	2.0	446	1	US-07-952-800-4	Sequence 4, Appli
44	103	2.0	448	4	US-08-216-592A-2	Sequence 2, Appli
45	103	2.0	449	4	US-09-355-214-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1  
US-09-262-537-58  
; Sequence 58, Application US/09262537  
; Patent No. 6479256  
; GENERAL INFORMATION:  
; APPLICANT: Hayflick, Joel  
; TITLE OF INVENTION: Lactomedin Materials and Methods  
; FILE REFERENCE: 27866/35307  
; CURRENT APPLICATION NUMBER: US/09/262,537  
; CURRENT FILING DATE: 1999-03-04  
; EARLIER APPLICATION NUMBER: 60/076,782  
; EARLIER FILING DATE: 1998-03-04  
; NUMBER OF SEQ ID NOS: 64  
; SOFTWARE: Patent Ver. 2.0  
; SEQ ID NO 58  
; LENGTH: 1469  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-262-537-58

Query Match		2.5%	Score 125.5;	DB 4;	Length 1469;
Best Local Similarity		20.7%	Pred. No. 0.054;		
Matches 130;		Conservative 80;	Mismatches 220;	Indels 199;	Gaps 35;
QY	172	GCGFTDGYQKQLPCQDEDCGFVALDKLELIEDDTALESYAGPGDTMQVELPPEIN	231		
Db	208	GTGFV--VYDGAVLNKRTRNVKYD-----	232		
QY	232	SRVSLKGETTESGTIVFCDLVLPKESLGYPVGVDMDNPIGNWDGRFD-----GVLC	283		
Db	233	LRTRIKSGTT--INTANYHDTSPYR-----WGKTDIDLAVDENGMLW	274		
QY	284	SPACVESTILLHINDIIPESVTQE-----RRPKLAFMSRG-----VGDKGS	326		
Db	275	IYATEGNRLVVSQNLNYTLRFEGTWTGYDKRASNAFMVCGVLYLRSVYVDDSEA	334		
QY	327	SHNKPKATGSTDPGNRRSELYFTLLNG-----SSVDSQPQSKSKNTW--YIDEVAEDPAK	379		
Db	335	AGNRVDYAFNTN--ANREEPVSLTFPNPYQFISVDYDNRDNLQYVNNVF-----	383		
QY	380	SLTEISTDFP-----DRSPPLQPPVNSLTITENRPHSLTQMPNTNGTIGHSPLSLSAQ	436		
Db	384	-VVRYSLRFBGPPDPGAGPATSPPLSTTTTA---RPTLTSTASPAATTLRRAPLTHPV	439		
QY	437	SWMBELN-----TAPQESPLAMPBGNSHGLEVSLAEVXENPFYGVIRWIGOPGL	490		
Db	440	GAINOLGPDLPATAPV---PSTRPPAPNLHVSPELFCPEP-----VRKQWP---	486		
QY	491	NEVLAGLEDEBCAGCTDGTFRGTGYFTCALKKALF---VKLKSCRPSRFRASLOPVSN	546		



RESULT 4  
US-09-399-913-57  
; Sequence 57, Application US/09399913  
; Patent No. 6361971  
; GENERAL INFORMATION:  
; APPLICANT: Rhodes, Kenneth  
; APPLICANT: Betty, Maria  
; APPLICANT: Ling, Huai-Ping  
; APPLICANT: An, Wenqian  
; TITLE OF INVENTION: POTASSIUM CHANNEL INTERACTORS AND USES THEREFOR  
; FILE REFERENCE: WNI-070CP2  
; CURRENT APPLICATION NUMBER: US/09/399,913  
; CURRENT FILING DATE: 1999-09-21  
; EARLIER APPLICATION NUMBER: USSN 60/110,277  
; EARLIER FILING DATE: 1998-11-30  
; EARLIER APPLICATION NUMBER: USSN 60/110,033  
; EARLIER FILING DATE: 1998-11-25  
; EARLIER APPLICATION NUMBER: USSN 60/109,333  
; EARLIER FILING DATE: 1998-11-20  
; EARLIER APPLICATION NUMBER: USSN 09/298,731  
; EARLIER FILING DATE: 1999-04-23  
; EARLIER APPLICATION NUMBER: USSN 09/350,614  
; EARLIER FILING DATE: 1999-07-09  
; EARLIER APPLICATION NUMBER: USSN 09/350,874  
; EARLIER FILING DATE: 1999-07-09  
; NUMBER OF SEQ ID NOS: 73  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 57  
; LENGTH: 267  
; TYPE: PRT  
; ORGANISM: Rattus sp.  
US-09-399-913-57

Query Match 2.3%; Score 118; DB 4; Length 267;  
Best Local Similarity 34.3%; Pred. No. 0.014;  
Matches 46; Conservative 16; Mismatches 54; Indels 18; Gaps 8;  
QY 217 PGDTMQLPPLPPLNSVLSKGGTIBSGTVIFCDVLPKGSYGVFGVDMNDPIGNWDG 276  
DB 104 PGNLMSAL-GLRLGDRVLDGQKT---GTURFCGTT--EFASQWGVGVLEDEFGKNDG 157  
QY 277 RPDGV---LCS-----FACVESTILLHINDIIPESVTQERRPPKLFMRSGVGDGKSSSH 328  
DB 158 SVGGVRYFICPPKQGLFASYSK--VSKAVDAPPSSVSTPTPTPRMDF-SRVTG-KGRREH 213  
QY 329 NKPKATGSTDGPN 342  
DB 214 KGKKKSPSPSLGS 227

RESULT 5  
US-08-222-617A-8  
; Sequence 8, Application US/08222617A  
; Patent No. 5882879  
; GENERAL INFORMATION:  
; APPLICANT: Veenstra, Ainemarie E.  
; APPLICANT: Martin, Juan F.  
; APPLICANT: Garcia, Bruno D.  
; APPLICANT: Gutierrez, Santiago  
; APPLICANT: Barredo, Jose L.  
; APPLICANT: Von Doehren, Hans  
; APPLICANT: Palissa, Harriet  
; APPLICANT: Van Liempt, Henk  
; APPLICANT: Montenegro, Eduardo P.  
; TITLE OF INVENTION: A Method for Influencing Beta-Lactam  
; TITLE OF INVENTION: Antibiotic Production and for Isolation of Large  
; TITLE OF INVENTION: Quantities of ACV Synthetase  
; NUMBER OF SEQUENCES: 27  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: McDonnell Boehnen Hulbert & Berghoff  
; STREET: 300 South Wacker Drive

CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/222,617A  
FILING DATE: 04-APR-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
REFERENCE/DOCKET NUMBER: 97,157  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 798 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
ORGANISM: Bacillus brevis  
US-08-222-617A-8

Query Match 2.3%; Score 117; DB 2; Length 798;  
Best Local Similarity 18.5%; Pred. No. 0.12;  
Matches 145; Conservative 109; Mismatches 273; Indels 256; Gaps 35;  
QY 57 HSRIPSAKGNQIGLKILEQPHAVLFVDEDVW-----EINEKFTLELLAITNCE 106  
DB 18 HALVYAGK---SIHQLFEEQAEAFDRVAIVFENRRLSYQELNRRKANQALAL---- 69  
QY 107 ERSLFKNRNLSKGLQID--VGCVPKVLRSGBEKGFCGVFRPGLLAERTVSGIFGV 164  
DB 70 -----LEKGVQDSIVGVNM-----EKSIENVI-----AILAVLKAGGAYVPI 107  
QY 165 E-----LLEBGRGGGTGCVYQKQLFOCEDCGF-----VALDKLELIEDDDTAL 210  
DB 108 DIEVPRRIQVILQDSQ---TKVLTOKSVQLVHDVGYSGEVVVLDB-EQLDARETAN 162  
QY 211 ESDVAGPGDWTQVLPPLPPLINSRSLKGGTIESGTVIFCD-----VLPKGESLGYFV 263  
DB 163 LHQSKPTDLAVY----IYTSGTCTCKPGTWMLEHKGIAICNPFKIRLASPKTSGGFLP 218  
QY 264 GVDMDNPIGNWDGRPDGVLCSFACVESTILLHINDIIPESVTQERRPPKLFMRSGVGDK 323  
DB 219 ACRSTHPPGK-----CSWLCCLA-----PRVHPSKQTIHDF 249  
QY 324 GSSHNKPKATGSTDGPNRRSELFTYTLNGSSVDSQPSKSNKTWVIDEVAEDPAKSLTE 383  
DB 250 AAFEH-----YLSENELTIILPPT-----YLTHTLPTITSLRI 284  
QY 384 ISTDFDRSSPPLQPPVNSLTTENRFHSLPESLTWKPNNGSIGHSPLSLSAQSVMEELN 443  
DB 285 MITAGSASSAPL-----VNKWKDKURYIN-----AYGPTETICATIWEAPSN 327  
QY 444 TAPVQESPLAMPNPNHSHGLEVSLAEVKENPPFYGVIRWIGQPPGPNLNEVLAGLELEDEC 503  
DB 328 QLSVQ-SVPIGKPIQNTNTH-----IYIV-----NEDLQLLPTADEG 361  
QY 504 AGCTDGTFRGTRYFTCALKKALFVKLSKCRPDRSFASIQPVSNQIERNCSLAFGGYSEV 563  
DB 362 ELCIGGVGLARGYWN-----RPD--LTAEFKVDNPFVPGKMYRTGDLAKW 405  
QY 564 VEENTPPMWEKEGLEIM--IGKKKGIQGHYNSCYLDSTLFCILFAPSSVLDLTVLLRPEKN 621  
DB 406 LTDGT-----IEFLGRIDHQVKIRGH--RIELGEIESVLLAHEHTEAVVIAREDOH 455  
QY 622 DVE---YYSETQELLRTIEIVNPLRIY-----GYVCATKIMKLKRI----- 658

Db 456 AGOYLCAVYISQOEATPAQ-----LRDYAAQKLPAYMLPSYFVKLDKQPLTPNDKIDRKAL 511  
QY 659 -----LEKVAASGFTSEEDPBEFLNLFPHILRVEPLKIR-----SAGQKQV 703  
Db 512 PEPDLTANOSQRAYHPPRTETESILVSIQWVLGIEK-IGIRDNFVSLGDSIQALQVVA 570  
QY 704 DCYFQVIMKNEKVGVPITQOLLEWFSNKLKFAE-----APSLIIQMPREG 753  
Db 571 RLHSYQKLETKDLLNYPTIEQVA--LFVKSTTRKSDQIAGNVPLTP-----IQKWFFG 624  
QY 754 KDF 756  
Db 625 KNF 627

RESULT 6  
US-08-280-443-2  
; Sequence 2, Application US/08280443  
; Patent No. 5643778  
; GENERAL INFORMATION:  
; APPLICANT: Nishikura, Kazuko  
; TITLE OF INVENTION: RNA Editing Enzyme and Methods of Use  
; TITLE OF INVENTION: Thereof  
; NUMBER OF SEQUENCES: 39  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howson and Howson  
; STREET: Spring House Corporate Cntr, P.O. Box 457  
; CITY: Spring House  
; STATE: Pennsylvania  
; COUNTRY: USA  
; ZIP: 19477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/280,443  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/197,794  
; FILING DATE: 17-FEB-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bak, Mary E.  
; REGISTRATION NUMBER: 31,215  
; REFERENCE/DOCKET NUMBER: WST49AUSA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-540-9206  
; TELEFAX: 215-540-5818  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1226 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-280-443-2

Query Match 2.2%; Score 113; DB 1; Length 1226;  
Best Local Similarity 19.9%; Pred. No. 0.62;  
Matches 115; Conservative 81; Mismatches 249; Indels 132; Gaps 26;

QY 142 PGVVRPRGP-LLAERT-----VSGIFPGVLEBEGGQGTGVTGQKQLFCQDDEDCGF 194  
Db 69 PG-LRPRFFVLLASSTRGRQVDIRGVPRGVHLGSQLRGFQHPSPRGRSLPQRGVDCLS 127  
QY 195 VALDKLELEDODTA-----LESYAGPGDTM-----QVELPPLFINS---RVSLKGGETI 242  
Db 128 SHFQELSIYQDQQRILKLEELGEGKATTAHDLGKLTGPKKEINRVLYSLAKRKLOK 187  
QY 243 ESGTVIFCDVLPKESGLGVFVGVDMDNPICGNWDGFRDGVLCSPACVESTILLHINDIPE 302

Db 188 EAGTPPLWKIAVUSTQAWNOHSGVVRP-----DGHSGQAPNSDPSLEP-----EDNST 235  
QY 303 SVTQRRRPKPLAFMR-----GVGDKSSSHNKPKATGSTDPGNRRSELFTYTLNGSSV 356  
Db 236 SVSEDLLEPFIASQAQWNOHSGVVRPDSHSGSP-----NSDPGLEPED-----SNSTSA 286  
QY 357 DSQP-----OSKSNVTWYIDEVAEDPAKSLTE-----ISTDFDRSSPPLQ- 396  
Db 287 LEDPLEFLDMAIEKICIDYLEFNVDSSALNAKNIGLTKARDINAVLIDMERQGDYRQ 346  
QY 397 --PPVNSLITENR-----FHSLP-----PSLTMPNTNGS---IGH 428  
Db 347 GTTPPIWLHUTDKKRRMQIKRNTNSVPETAPAAIPETKNAEFLTCNITPSNASNMVTT 406  
QY 429 SPLSLSAQSVMBELNAPVQESPPLAMPNGSHGLEVGSLAEVKENPPFPYGVIRWIGQ-- 486  
Db 407 EKVENGOEPVIKLENRQEARPEPARLKPPVHYNGPSKAGVDFENG-----QWATDDI 459  
QY 487 PPLNEVLAGLELEDECAGCTGTRGTRYFTCALKKALFVK--LKSCRPDSPASLQ-- 542  
Db 460 PDDLNSIRA-----APGEFR-----AIMEMPSFYSHGLPRCSYKKLTECOLK 502  
QY 543 -PVSQIERCNSLAGGYLSE--VVENTPKMKEGLEIMIGKKGIQGHYNSCYLDST 599  
Db 503 NPISGLLEYAQ--FASQTCFNMIEQSGPPHPRFKFQVINGREPREPPPAEAGSKKVAQ 559  
QY 600 LFLCFAFSSVLDTVLLRPKEKN-DVEYYSETQELLRT 635  
Db 560 DAMKAWTILLBEAKAKDSKSESHSYSTESEKT 596

RESULT 7  
US-08-457-459-2  
; Sequence 2, Application US/08457459  
; Patent No. 5677428  
; GENERAL INFORMATION:  
; APPLICANT: Nishikura, Kazuko  
; TITLE OF INVENTION: RNA Editing Enzyme and Methods of Use  
; TITLE OF INVENTION: Thereof  
; NUMBER OF SEQUENCES: 39  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howson and Howson  
; STREET: Spring House Corporate Cntr, P.O. Box 457  
; CITY: Spring House  
; STATE: Pennsylvania  
; COUNTRY: USA  
; ZIP: 19477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/457,459  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/197,794  
; FILING DATE: 17-FEB-1994  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/280,443  
; FILING DATE: 25-JUL-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bak, Mary E.  
; REGISTRATION NUMBER: 31,215  
; REFERENCE/DOCKET NUMBER: WST49CUSA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-540-9206  
; TELEFAX: 215-540-5818  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1226 amino acids  
; TYPE: amino acid



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; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-457-459-2

Query Match      2.2%; Score 113; DB 1; Length 1226;
Best Local Similarity 19.9%; Pred. No. 0.62;
Matches 115; Conservative 81; Mismatches 249; Indels 132; Gaps 26;

Qy 142 PGVVRFRGP-LLAERT-----VSGIFFGVLEEGRGQFTDGVYQKQLFQCDDECGF 194
Db 69 PG-LRPRFPVLLASSTRGQVDIRGVRGVHLGSQGLQRFQHPSPGRSLPQRGVDCLS 127
Qy 195 VALDKLELIEDDTA---LESYAGPGDTM-----QVELPPLAINS---RVSLKGGETI 242
Db 128 SHFQELSIYQOEORILKFLBELGEGKATTAHDLGKLGTPKKEINRVLYSLAKGKLOK 187
Qy 243 ESGTVIFCDVLPFGKESLGYFVGVDMDNPIGNWGRFDGVLCSFACVESTILLHINDIPE 302
Db 188 EAGTPPLWKIAVSTQAWNQHSQVVRP-----DGHSGQAPNSDPSLEP-----EDRNST 235
Qy 303 SVTQERRPPKLAFMSR-----GVGDGKSSSHNKPATGSTDGPNRRSELFTYTLNGSSV 356
Db 236 SVSEDLLEPFTIAVSAQAWNQHSQVVRPDSHQSGSP-----NSDPGLEPED-----SNSTSA 286
Qy 357 DSQP-----QSKSKNTWYIDEVAEDPAKSLTE-----ISTDFDRSSPPLQ- 396
Db 287 LEDPLEFLDMAIEKIKIDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQ 346
Qy 397 --PPVNSLTTENR-----FHSLP-----FSLTKMPNTNGS---IGH 428
Db 347 GTTTPPIWHLTDKRRMQIKRNTNSVPETAPAAIPETKNAEFLTCNIPTSNASNNMVT 406
Qy 429 SPLSLSAQSVMEELNTAPVQESPLPAMPNGNSHGLEVGSLAEVKENPPFYGVIRWIGQ-- 486
Db 407 EKVNGQEPVVKLENRQEARPEPARLKPVPVYNGSKAGYVDVFENG-----QWATDDI 459
Qy 487 PPGLNEVLAGLEDEACAGCTDGTGRGTRYFTCALKKALFKV--LKSCRPSRFSASLQ-- 542
Db 460 PDDLNSIRA-----APGEPR-----AIMEPFSYSHGLPRCSPYKLTTECQLK 502
Qy 543 -PVSNQIERCNSLAFGGYLSE--VVEENTPPKMEKEGLEIMIGKKKGIOGHVNSCYLDST 599
Db 503 NPISGLLEAYO---FASQTCFNMIEQSGPPHPRFKFOVVINGREFPPPAEAGSKKVAQ 559
Qy 600 LFLCLFAFSSVLDTVLLRPKEKN-DVEYYSETQELIRT 635
Db 560 DAAMKAMTILLEAKAKDSKSESSHSTEKESEKT 596

RESULT 8
US-08-555-678-2
; Sequence 2, Application US/08555678
; Patent No. 5763174
; GENERAL INFORMATION:
; APPLICANT: Nishikura, Kazuko
; TITLE OF INVENTION: RNA Editing Enzyme and Methods
; TITLE OF INVENTION: of Use Thereof
; NUMBER OF SEQUENCES: 67
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P.O. Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/555,678
; FILING DATE:

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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/197,794
; FILING DATE: 17-FEB-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/280,443
; FILING DATE: 25-JUL-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/457,459
; FILING DATE: 01-JUN-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: WST49DUSA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9206
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1226 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-555-678-2

Query Match      2.2%; Score 113; DB 1; Length 1226;
Best Local Similarity 19.9%; Pred. No. 0.62;
Matches 115; Conservative 81; Mismatches 249; Indels 132; Gaps 26;

Qy 142 PGVVRFRGP-LLAERT-----VSGIFFGVLEEGRGQFTDGVYQKQLFQCDDECGF 194
Db 69 PG-LRPRFPVLLASSTRGQVDIRGVRGVHLGSQGLQRFQHPSPGRSLPQRGVDCLS 127
Qy 195 VALDKLELIEDDTA---LESYAGPGDTM-----QVELPPLAINS---RVSLKGGETI 242
Db 128 SHFQELSIYQOEORILKFLBELGEGKATTAHDLGKLGTPKKEINRVLYSLAKGKLOK 187
Qy 243 ESGTVIFCDVLPFGKESLGYFVGVDMDNPIGNWGRFDGVLCSFACVESTILLHINDIPE 302
Db 188 EAGTPPLWKIAVSTQAWNQHSQVVRP-----DGHSGQAPNSDPSLEP-----EDRNST 235
Qy 303 SVTQERRPPKLAFMSR-----GVGDGKSSSHNKPATGSTDGPNRRSELFTYTLNGSSV 356
Db 236 SVSEDLLEPFTIAVSAQAWNQHSQVVRPDSHQSGSP-----NSDPGLEPED-----SNSTSA 286
Qy 357 DSQP-----QSKSKNTWYIDEVAEDPAKSLTE-----ISTDFDRSSPPLQ- 396
Db 287 LEDPLEFLDMAIEKIKIDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQ 346
Qy 397 --PPVNSLTTENR-----FHSLP-----FSLTKMPNTNGS---IGH 428
Db 347 GTTTPPIWHLTDKRRMQIKRNTNSVPETAPAAIPETKNAEFLTCNIPTSNASNNMVT 406
Qy 429 SPLSLSAQSVMEELNTAPVQESPLPAMPNGNSHGLEVGSLAEVKENPPFYGVIRWIGQ-- 486
Db 407 EKVNGQEPVVKLENRQEARPEPARLKPVPVYNGSKAGYVDVFENG-----QWATDDI 459
Qy 487 PPGLNEVLAGLEDEACAGCTDGTGRGTRYFTCALKKALFKV--LKSCRPSRFSASLQ-- 542
Db 460 PDDLNSIRA-----APGEPR-----AIMEPFSYSHGLPRCSPYKLTTECQLK 502
Qy 543 -PVSNQIERCNSLAFGGYLSE--VVEENTPPKMEKEGLEIMIGKKKGIOGHVNSCYLDST 599
Db 503 NPISGLLEAYO---FASQTCFNMIEQSGPPHPRFKFOVVINGREFPPPAEAGSKKVAQ 559
Qy 600 LFLCLFAFSSVLDTVLLRPKEKN-DVEYYSETQELIRT 635
Db 560 DAAMKAMTILLEAKAKDSKSESSHSTEKESEKT 596

RESULT 9
PCT-US95-02275-2
; Sequence 2, Application PC/TUS9502275

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QY 335 --GSTDPG--NRSEL-----FYLNGSSVDSQPQSKS 364  
Db 138 DGGKTPPKMNRATYMDVRBQHLTKBEREIRQALAEKAGELKVVNCAAA--SQPPSKR 196  
QY 365 KNTWIDEVAEDPAKSLTEITDPRSSPPLQPPPVNSLTITENRPHSLPFLSLTKMPNTNG 424  
Db 197 KRW--DOTADOTGATPKKLSWDQATPGHTTSLRWDETPGR-----AKGSETPG 246  
QY 425 SI-----GHSPLSLSAQSVMEELNTPAVQESPPPLAMPPGNSHGLEVGSLSAEVKEN 474  
Db 247 ATPGSKIWDPTTSPHTPAGAA-----TPGRGDTPGHATPG--HG--GATSSARKN 291  
QY 475 PPFVGVIRWIGQPPGLNEVLAGLELEDEACACTDGTFRGTRY 516  
Db 292 -----RWDETPKTERDTLG-----HGSGWGETPRTRDRGGDY 322  
  
RESULT 11  
US-09-328-352-4412  
; Sequence 4412, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 4412  
; LENGTH: 734  
; TYPE: PRT  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-4412  
  
Query Match 2.2%; Score 112; DB 4; Length 734;  
Best Local Similarity 20.0%; Pred. No. 0.31;  
Matches 148; Conservative 95; Mismatches 264; Indels 232; Gaps 38;  
  
QY 45 SIGQYIDRSVGHGRIPSAK-----KNOIGLKILEQPHAVLF--VDEDVVINEKFTL 98  
Db 1 NLGQEIIMTRII-----VASKEGLDVLQDQLNKVNLPQTIIGVSKDQDIASMEKQGGSL 56  
QY 99 LLAITN-----CEBRFSLFKNRNLSKGLQIDVGCVPKVLRSGBEKPFGVVRPRG---- 149  
Db 57 VIHUKNGETIVLENFNEATNTTSHLSVFPTEQGFVEAQDQCK-----VIDYRGLNHV 112  
QY 150 -----PLLAERTVSG--IFFGVLELLEBGRGQGTGDVYVQKQLPQCDEDCGFVALD 198  
Db 113 TDLAYTSTSPSAATMAVDNDFSMGNVLKAGLAVLAAEGLY---LWAFDKD----- 161  
QY 199 KLEIEDDDTALESYAGPG-----DTMQVELPPLIENSRVSLK--GGETTESGTVI 248  
Db 162 -----DKDDSPSTPLIAPAAPTATLADDTVTV--TGKTEANAKIYIKDAAGNTVASGVA- 214  
QY 249 FCDVLPKESIGYFVGVDMDNPIGNWDRFDDGLCSFACVES---TILHINDIIPESVT 305  
Db 215 -----DASGNTY--IKLDPLVNGDKL--NVIAQDAAGNSKVTVVGTGKDTIADVP 263  
QY 306 QERRPPKLAFLMRSGVGDGKSSSHNKPATGSTS---DPCNRRSELFTYTLNG--SSVDSQF 361  
Db 264 QAQ-----LSDGSLLTGKAEANAKITVYDATGKVLGTGVFANKDGIYSLKLTTP 312  
QY 362 SKSKNTWIDVAEDPAKSLTE---ISTDFRSPPLQPPPVNSLTITENRPHSLPFLSLT- 417  
Db 313 LTSEAGGKV--VAEDAAGNKESEVKIIAGKDTI-----PPASPVEVNEKESVINGKTE 364  
QY 418 -----KMPNTNGSI-----GHSPLSLSAQSVMEELNTPAVQES---SPPLAMP 458  
Db 365 ANAKVQIKDAGGKVGSGTADAGQEFQITLSPALKEAQGTIVVEDAAGNVSQKPEITPG 424  
QY 459 -----NSHGLEVGSLSAEVKENPPFYGVIRWIGQPPGLNEVLAGLELEDECA 505

Db 425 FDSIAPDKPTVQINTDGTSTVTGTAEAN-----AKIEIKDTTGG 462  
QY 506 CT-DGTFRGTRYFTCALKKALFVKLKSRCPSRFSALQPVSNQIERCNSLAFGGYILSEVV 564  
Db 463 VIGSCTADANGKFTTISISPAL-----TDNKHASVSAIN-----AGNKSEVV 504  
QY 565 E-----ENTPP-KMEKEGLEIMIGKKGIQGHYNSCYLDTLFCLEFAPGSVLDTVLLRPK 618  
Db 505 DIVGTGKDTTPPAKPTILNSVDDVDGAVKG-----AITAGSETDDARPK 546  
QY 619 EKNDVEYYSETQELLRTIVNPLRIY-----GYVCAT-----KIMKLK-----IL 659  
Db 547 LTGSGEANA-----TLTIYDNGVALGVTVTISGRSWSFTFDKDLALCKHTITL 594  
QY 660 EKVEAASGFTSEKDPPEEF 678  
Db 595 TQTDAA--GLTSEASSPFTF 612  
  
RESULT 12  
US-09-370-368-7  
; Sequence 7, Application US/09370368  
; Patent No. 6258932  
; GENERAL INFORMATION:  
; APPLICANT: Anders Vahlne  
; TITLE OF INVENTION: PEPTIDES THAT BLOCK VIRAL INFECTIVITY  
; FILE REFERENCE: TRIPEP.003A  
; CURRENT APPLICATION NUMBER: US/09/370,368  
; CURRENT FILING DATE: 1999-08-09  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 7  
; LENGTH: 657  
; TYPE: PRT  
; ORGANISM: Mason-Pfizer Monkey Virus  
US-09-370-368-7  
  
Query Match 2.2%; Score 110.5; DB 3; Length 657;  
Best Local Similarity 20.2%; Pred. No. 0.36;  
Matches 112; Conservative 80; Mismatches 219; Indels 143; Gaps 29;  
  
QY 304 VTQERRPPKLAFLMRSGVGDGKS--SSHNKPKATGSTSDPCNRRSELFTYTLNGSSVDSQPQ 362  
Db 118 LTKTSQNFDLDLISLSDDEGAKSSSLQDKGLSSTKPK--KRFPVLLTAQ--TSKDPEDPN 174  
QY 363 KSKNTWYIDEVAEDPAKSLTEITDPRSSPPL--QPPPVNSLTITENRPHSLPFLSLTKMP 420  
Db 175 PSEVDW--DGLEDEAAKY-----HNPDMPPFLTRPPPYNKATP-----SAP-TVMVV 219  
QY 421 NTNGSIGHSPLSLSAQSVMEELNTPAVQESPPPLAMPNGN---SHGLEVGSLSAEVKENPPF 477  
Db 220 NPKELKEKIAQLEEQIKLEELHQALISKLOKL--KTGNETVTHPTAGLSRTP----- 272  
QY 478 YGVIRWIGQPPGLNPLVLAGLELEDE-----CAGCTDGTFRGTRYFTCALKKALFVKL 530  
Db 273 ----HWPCQHLPKGKCCASREKEEQIPKDI FVTVETVDGQGAWRHHN--GFDFAVIKELK 327  
QY 531 SCRPSRFSALQPVSNQIERCNSLAFGGYILSEVVEN--TPPMKEKEGLEIMIGKKGIQ 588  
Db 328 TAA--SOYGATAPY-----TLA-----IVESVADNMLTPTDWNLTAVRAVLSGG----- 368  
QY 589 GHYNSCYLDTLFCLEFAPGSVLDTVLLRPKEKNDVEY-----YSEQELLARTEIVNP 640  
Db 369 -----DHLWKSEFFENCRCRTAKRNOQAAGNDFDMLTSGNSYSSDAQMOYD----- 416  
QY 641 LRIYGVYCATKIMKILKEVAAASGFTSEKDPPEEFLNIFPHILRVEPLLKIRSAGQ 700  
Db 417 PGLFAIQIAAATKAWRKL PVKGDPGASLTGVYQGPDEPFVHRL-----ITAG- 467  
QY 701 KVQDCYFYQIFMEKNEKVGVTPIQQLLEWSFINSNLKFAEAPSLIIMPRFGKD----- 755  
Db 468 -----RIF--GSAEAGVDYVKQL---AYENAN-----PACQAAIRPYRKKTDLTGY 508

QY 756 FKLEKKIRPSLE-----LNTDLETPRCRCICGLLWVECREYDDPDISAG 804  
 Db 509 ILCSDIGSYOQGLAMAAAFSGQTVDKFLNNKKEKGGC-----CPKC-----G 553

QY 805 KIKQFCKTCTQVH 818  
 Db 554 KKGHFAKNCHHAH 567

RESULT 13  
 US-08-999-774A-13  
 ; Sequence 13, Application US/08999774A  
 ; Patent No. 6274312

GENERAL INFORMATION:  
 ; APPLICANT: Gish, Kurt C.  
 ; APPLICANT: Seghezzi, Wolfgang  
 ; APPLICANT: Shanahan, Frances  
 ; APPLICANT: Lees, Emma M.  
 ; APPLICANT: McElanahan, Terrill K.  
 ; TITLE OF INVENTION: Intracellular Regulatory Molecules;  
 ; NUMBER OF SEQUENCES: 13  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: DNAX Research Institute  
 ; STREET: 901 California Avenue  
 ; CITY: Palo Alto  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94304-1104  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/999,774A  
 ; FILING DATE: 10-DEC-1997  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/032,818  
 ; FILING DATE: 11-DEC-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Ching, Edwin P.  
 ; REGISTRATION NUMBER: 34,090  
 ; REFERENCE/DOCKET NUMBER: DX0646  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (650)852-9196  
 ; TELEFAX: (650)496-1200  
 ; INFORMATION FOR SEQ ID NO: 13:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 1306 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: not relevant  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 US-08-999-774A-13

Query Match 2.2%; Score 109.5; DB 3; Length 1306;  
 Best Local Similarity 23.0%; Pred. No. 1.5;  
 Matches 72; Conservative 30; Mismatches 84; Indels 127; Gaps 20;  
 QY 255 GKESLGYFVGVDMDNPI-GNWDGRFPGVLCSPACVB-----STILL-----H- 295  
 Db 32 GLDSTGY-----DQIYGSRSRFAGYVTSIAATELEDDDDDDYSSSTSLGQKPGYHA 86  
 QY 296 -----INDIIPESVTQ-----ERRPPKLPMSRGVGDKGSSSHNKPAT----- 334  
 Db 87 PVALIND-IPQSTEQYDPPAEHRPPKIA-----DR-EDEYKCHRRTWIIISPERLDPPA 137  
 QY 335 --GSTSDPGNR-----RSEL-----FYTLNGSSVDSQPSQSKS 364  
 Db 138 DGGKTPDPKQNVRTYMDVMREQHLTKEEREIRQQLAEKAGELKVVNGAAA-SQPPSKR 196

QY 365 KNTWYIDEVAEDPAKSLTEISTDFORSSPPLQPPPVNSLTENRFHSLPFLTKMPNTNG 424  
 Db 197 KRRW--DQTADQTPGATPKKLSLWDOAETPGHTPTSLRWDETGR-----ARGSETPG 246  
 QY 425 SI-----GHSPLSLSAQSVMBELNATPVQESPPPLAMPNGHGLVSGSLAEVKEN 474  
 Db 247 ATPGSKINDPTFSHTPGAA-----TPORGDTPGHATPG--HG---GATSSARKN 291  
 QY 475 PPFYGVIRWIGOP 487  
 Db 292 -----RWDETP 297

RESULT 14  
 US-09-205-258-689  
 ; Sequence 689, Application US/09205258  
 ; Patent No. 6525174  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Young et al.  
 ; TITLE OF INVENTION: 207 Human Secreted Proteins  
 ; FILE REFERENCE: PZ007P1  
 ; CURRENT FILING DATE: 1998-12-04  
 ; EARLIER APPLICATION NUMBER: PCT/US98/11422  
 ; EARLIER FILING DATE: 1998-06-04  
 ; EARLIER APPLICATION NUMBER: 60/048,885  
 ; EARLIER FILING DATE: 1997-06-06  
 ; EARLIER APPLICATION NUMBER: 60/049,375  
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EARLIER APPLICATION NUMBER: 60/070,923  
EARLIER FILING DATE: 1997-12-18  
EARLIER APPLICATION NUMBER: 60/092,921  
EARLIER FILING DATE: 1998-07-15  
EARLIER APPLICATION NUMBER: 60/094,657  
EARLIER FILING DATE: 1998-07-30  
NUMBER OF SEQ ID NOS: 1227  
SOFTWARE: Patent In Ver. 2.0  
SEQ ID NO 689  
LENGTH: 452  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SITE  
LOCATION: (61)  
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids  
US-09-205-258-689  
Query Match 2.2%; Score 109; DB 4; Length 452;  
Best Local Similarity 23.3%; Pred. No. 0.26;  
Matches 109; Conservative 46; Mismatches 151; Indels 162; Gaps 27;  
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Db 36 FFDIVSINGSR----LNKNDTLKDLKXNVEKPKMLIYSSK-----TLELRSTVTP 86  
Qy 155 RTVSGIFPGVLEBGRGGFTDGVYQKQLFQCDGCFVALDK-----LELIEDDDTA 209  
Db 87 SNLWG-----CGGL-----LGVSRFCFPGANENWHVLEVESNPAA 125  
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Db 126 LAGLRPHSDYIIIGADTVNSESDEL-----FSLI--ETHEA-----KPLKLYVN 167  
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US-08-216-592A-4  
Sequence 4, Application US/08216592A  
Patent No. 6635429  
GENERAL INFORMATION:  
APPLICANT: LEID, MARK  
APPLICANT: KASTNER, PHILIPPE  
APPLICANT: CHAMON, PIERRE  
TITLE OF INVENTION: NOVEL HETERODIMERIC STEROID RECEPTOR  
TITLE OF INVENTION: PROTEINS, GENES ENCODING SAME, AND USAGE THEREOF  
NUMBER OF SEQUENCES: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Sterne, Kessler, Goldstein & Fox  
STREET: 1100 New York Avenue NW Suite 600  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/216,592A  
FILING DATE: 23-MAR-1994  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/825,667  
FILING DATE: 24-JAN-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: GOLDSTEIN, JORGE A  
REGISTRATION NUMBER: 29,021  
REFERENCE/DOCKET NUMBER: 1383.0060002  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 371-2600  
TELEFAX: (202) 371-2540  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 533 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-216-592A-4  
Query Match 2.1%; Score 108; DB 4; Length 533;  
Best Local Similarity 21.5%; Pred. No. 0.43;  
Matches 123; Conservative 56; Mismatches 163; Indels 230; Gaps 32;  
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Db 177 EDVK--PPVLGV-RGLHCPFPFPGGPGAGKRL---CAICGDRS-SGRHYGVYCEGCKGFF 229  
Qy 527 VKL-----KSCRPSRFRASLQPVSNQIERCNSLAF-----GGYLSEWVEENTP 569

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Db 230 KETIRKOLTYCRDNKDCVDR-----QRNRCQYCRQKCLATCMKREAVQEERQ 280
QY 570 PQWEKEG-----LEIMIGKK--KGIQ-----589
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QY 618 --KEKNDVEY--YSETQELLRTIYNPLRIYGVVCAKIMLKRKIL-----659
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QY 660 -----EKVEAASGFTSEEXDPEE---FLNLFHHLRVEPLIKIRSAGOK-VQDCYFYQI 710
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Db 513 -----IGDTPIDTFL-----MEMLEAP 529
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